

Modular Classroom Additions

Newton, MA

City of Newton Public Buildings Department



Burr Elementary School
171 Pine Street



Horace Mann Elementary School
687 Watertown Street



Zervas Elementary School
30 Beethoven Avenue

DRAWING LIST

- A0 - TYPICAL DETAILS ALL THREE SCHOOLS
- B-A1 - BURR SITE PLAN
- B-A2 - BURR FLOOR PLANS
- B-A3 - BURR EXTERIOR ELEVATIONS
- HM-A1 - HORACE MANN SITE PLAN
- HM-A2 - HORACE MANN FLOOR PLANS
- HM-A3 - HORACE MANN EXTERIOR ELEVATIONS
- Z-A1 - ZERVAS SITE PLAN
- Z-A2 - ZERVAS FLOOR PLANS
- Z-A3 - ZERVAS EXTERIOR ELEVATIONS
- B-P1 - BURR FLOOR PLAN (PLUMBING)
- HM-P1 - HORACE MANN FLOOR PLAN (PLUMBING)
- Z-P1 - ZERVAS FLOOR PLAN (PLUMBING)
- B-M1 - BURR FLOOR PLAN (MECHANICAL)
- HM-M1 - HORACE MANN FLOOR PLAN (MECHANICAL)
- Z-M1 - ZERVAS FLOOR PLAN (MECHANICAL)
- E-0.0 - LEGEND, RISER DIAGRAMS (ELECTRICAL)
- E-1.0 - BURR FIRST AND SECOND FLOOR PLANS (ELECTRICAL)
- E-2.0 - HORACE MANN BASEMENT AND FIRST FLOOR PLANS (ELECTRICAL)
- E-3.0 - ZERVAS FLOOR PLAN (ELECTRICAL)

HMFH Architects, Inc. / Architect
TMP Consulting Engineers, Inc./ MEP, FP Engineers
Kalin Associates / Specifications Consultant

BID DOCUMENTS

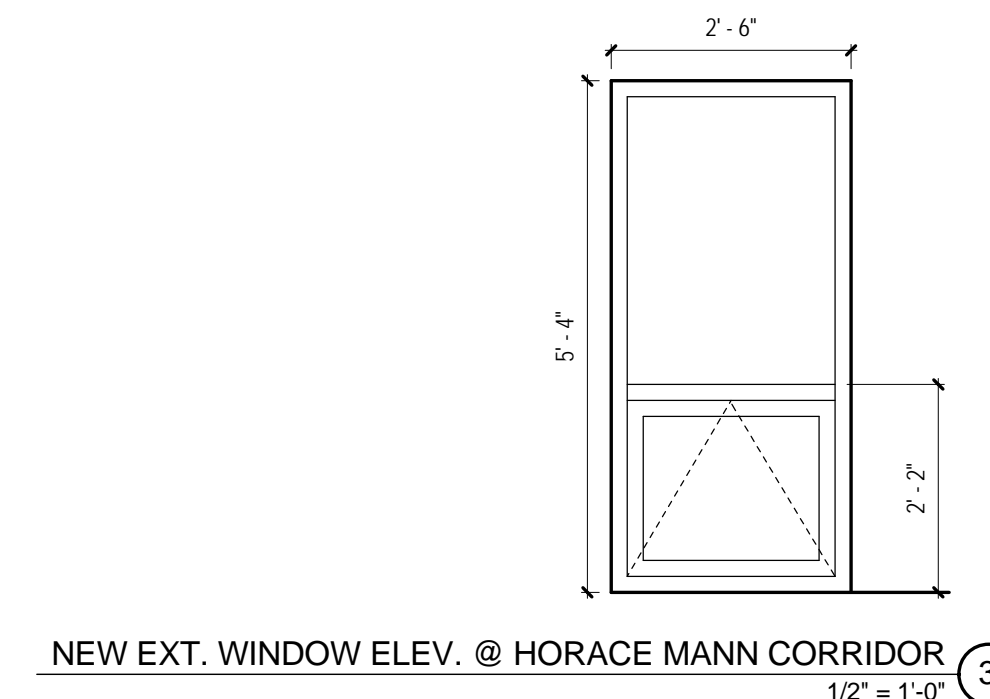
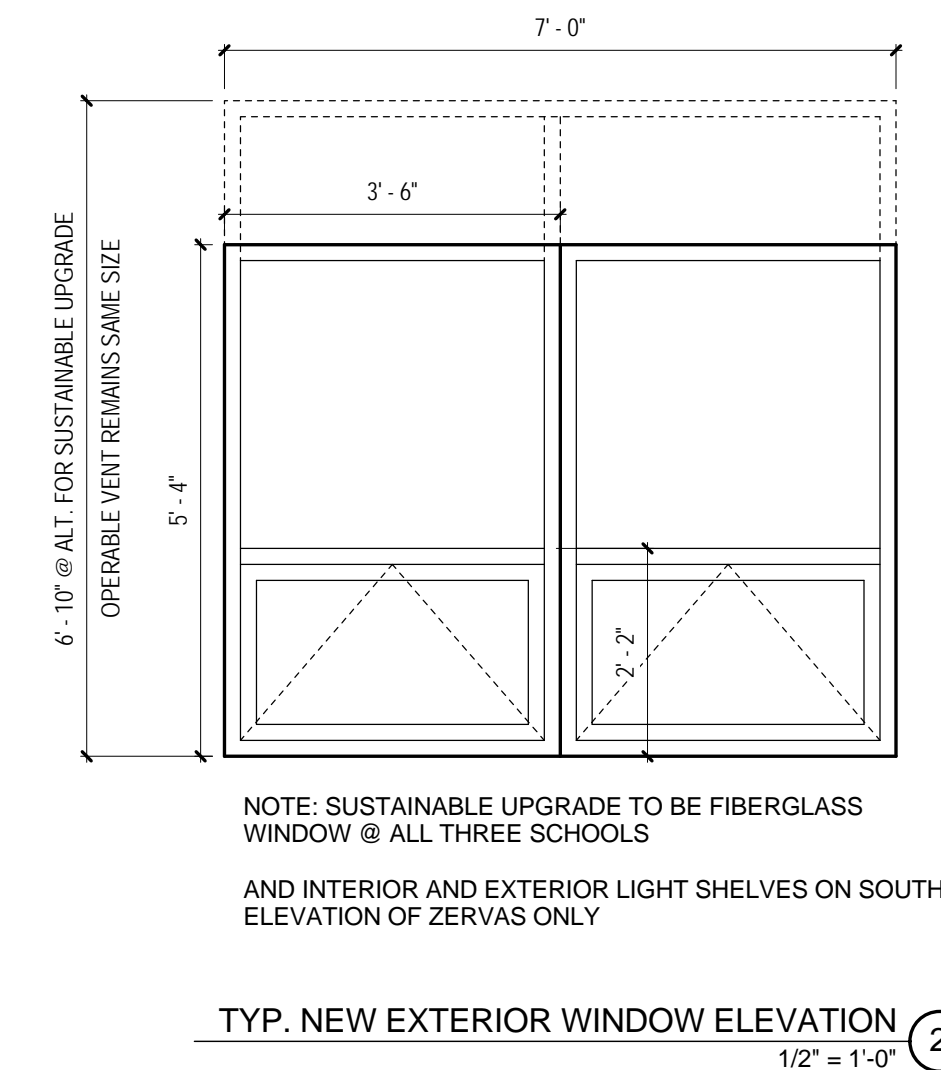
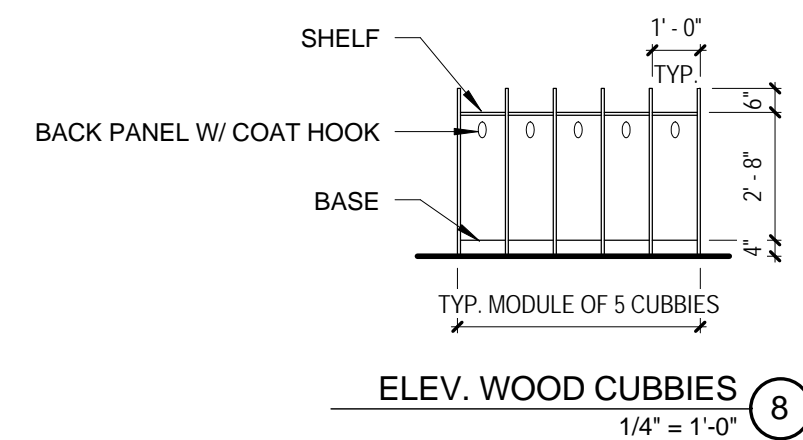
08/11/2011

SET # _____

1. THE FOLLOWING DOCUMENTS ARE TO BE USED AS A BASIS FOR SUBMITTING A BID FOR FOUR MODULAR CLASSROOMS: A ONE-CLASSROOM ADDITION AT BOTH BURR AND HORACE-MANN ELEMENTARY SCHOOLS AND A TWO-CLASSROOM ADDITION AT ZERVAS ELEMENTARY SCHOOL.
2. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING AND SUBMITTING FINAL ENGINEERING AND PERMITTING DOCUMENTS BASED ON THESE DOCUMENTS TO MEET THE 8TH EDITION OF THE MA. STATE BUILDING CODE AS WELL AS ALL OTHER LOCAL AND STATE REGULATIONS.
3. MODIFICATIONS TO THE EXISTING BUILDING NECESSARY FOR THE NEW CLASSROOM(S) ADDITION ARE DESCRIBED AS A BASIS FOR DEVELOPING A BUILDING SOLUTION. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING ALL PROFESSIONALLY STAMPED DOCUMENTS NECESSARY FOR CONSTRUCTION.
4. NEW AND USED CONSTRUCTION TO BE NON-COMBUSTIBLE.
5. ALL MODULAR BUILDINGS TO BE CONSTRUCTED FOR FUTURE RELOCATABILITY.
6. ALL JOINTS BETWEEN NEW ADDITIONS AND EXISTING CONSTRUCTION TO BE BUILT WITH EXPANSION JOINTS. INCLUDE ALL INTERIOR AND EXTERIOR FINISH PLATES AND FILLERS.
7. AT ALL THREE LOCATIONS EXCAVATE AS NECESSARY FOR NEW PIER FOUNDATIONS. INSTALL A MINIMUM OF 4" OF CRUSHED STONE PER FOOT OF NEW ADDITION. THE STORM WATER RUN-OFF IS TO BE DIRECTED TOWARD SCUPPERS AND DOWNSPOUTS THAT TERMINATE AT THE CRUSHED STONE WELL PER THE DETAIL ON THIS SHEET.
8. REPAIR/PATCH EXISTING ASPHALT SURFACES DAMAGED DUE TO STAGING AND STORING OF MATERIAL AND EQUIPMENT AT COMPLETION OF THE PROJECT.

<p>ALSO REFER TO SPECIFICATIONS AND MEP/FP DRAWINGS FOR ADDITIONAL INFORMATION ABOUT ALTERNATE UPGRADES</p>
<p>1. CHANGE ACOUSTICAL SUSPENDED CEILING FOR NEW CLASSROOM TO BE ACOUSTIC PANEL, INSTALLED AS TIGHT TO STRUCTURE AS POSSIBLE TO ACHIEVE THE HIGHEST INTERIOR VOLUME POSSIBLE.</p>
<p>2. CHANGE LIGHT FIXTURES IN CLASSROOM FROM RECESSED TO INDIRECT/DIRECT PENDANT LINEAR FLUORESCENT PENDANT FIXTURES.</p>
<p>3. ADD DAYLIGHT HARVESTING LIGHT CONTROLS.</p>
<p>4. CHANGE EXTERIOR WINDOWS FROM ALUMINUM FRAMES TO FIBERGLASS FRAMES AND INCREASE THE OVERALL HEIGHT OF THE WINDOWS FROM 5'-4" TO 6'-10" (WIDTH REMAINS THE SAME).</p>
<p>5. CHANGE FINISH FLOORING FROM VCT TO LINOLEUM TILES.</p>
<p>6. CHANGE MECHANICAL DUCT TO BE EXPOSED USING SPIRAL DUCT. PAINT THE EXPOSED DUCTS.</p>
<p>7. ADD SOLAR LIGHT TUBES WITH BLACK-OUT SHADES AS DIAGRAMMATICALLY SHOWN ON THE PLANS.</p>

Modular Classroom Additions
Newton, MA



- A. REFER TO SPECIFICATIONS FOR GLAZING TYPE REQUIRED.
- B. GLAZING STOPS SHALL BE INSTALLED ON ROOM SIDE OF FRAME WHEN FRAME IS IN CORRIDOR OR LOBBY
- C. ALL HOLLOW METAL DOORS SHALL RECEIVE HIGH PERFORMANCE PAINT FINISH.
- D. INTERIOR DOORS: WOOD VENEER WITH CLEAR FINISH TO MATCH EXISTING (TYP. MAPLE OR OAK).
- E. NEW FIBERGLASS EXTERIOR DOOR AT HORACE-MANN. EXISTING FIBERGLASS DOORS RE-USED AT BURR AND ZERVAS.
- F. TYPE 'B' DOOR USED AT INTERIOR VESTIBULE AT ZERVAS.



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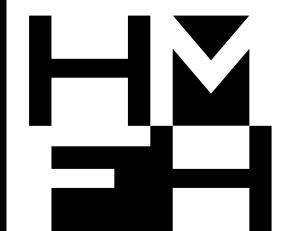
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BURR - SITE PLAN 1
1" = 20'-0"

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BURR SITE PLAN

SCALE 1" = 20'-0"

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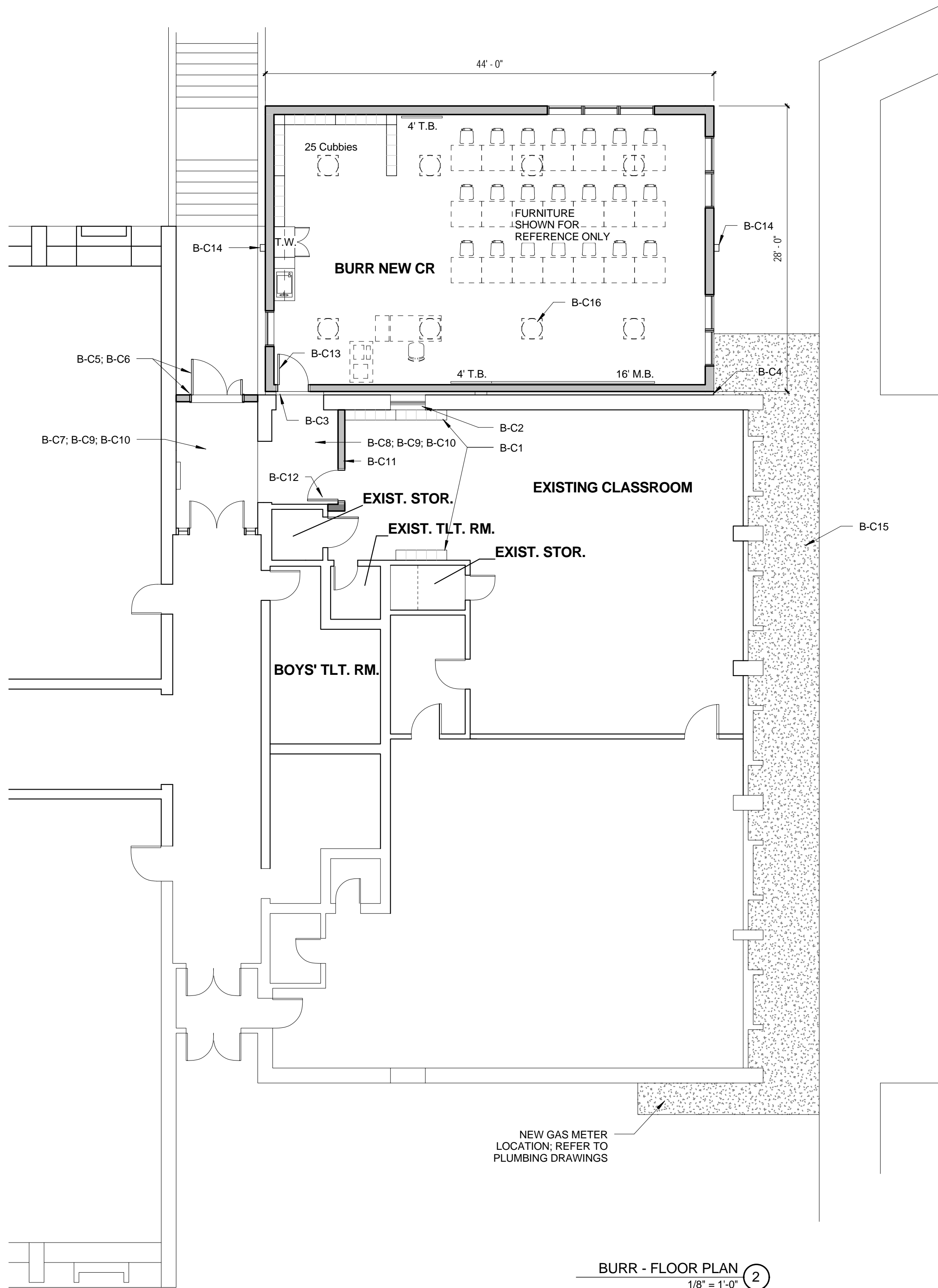
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B-A1

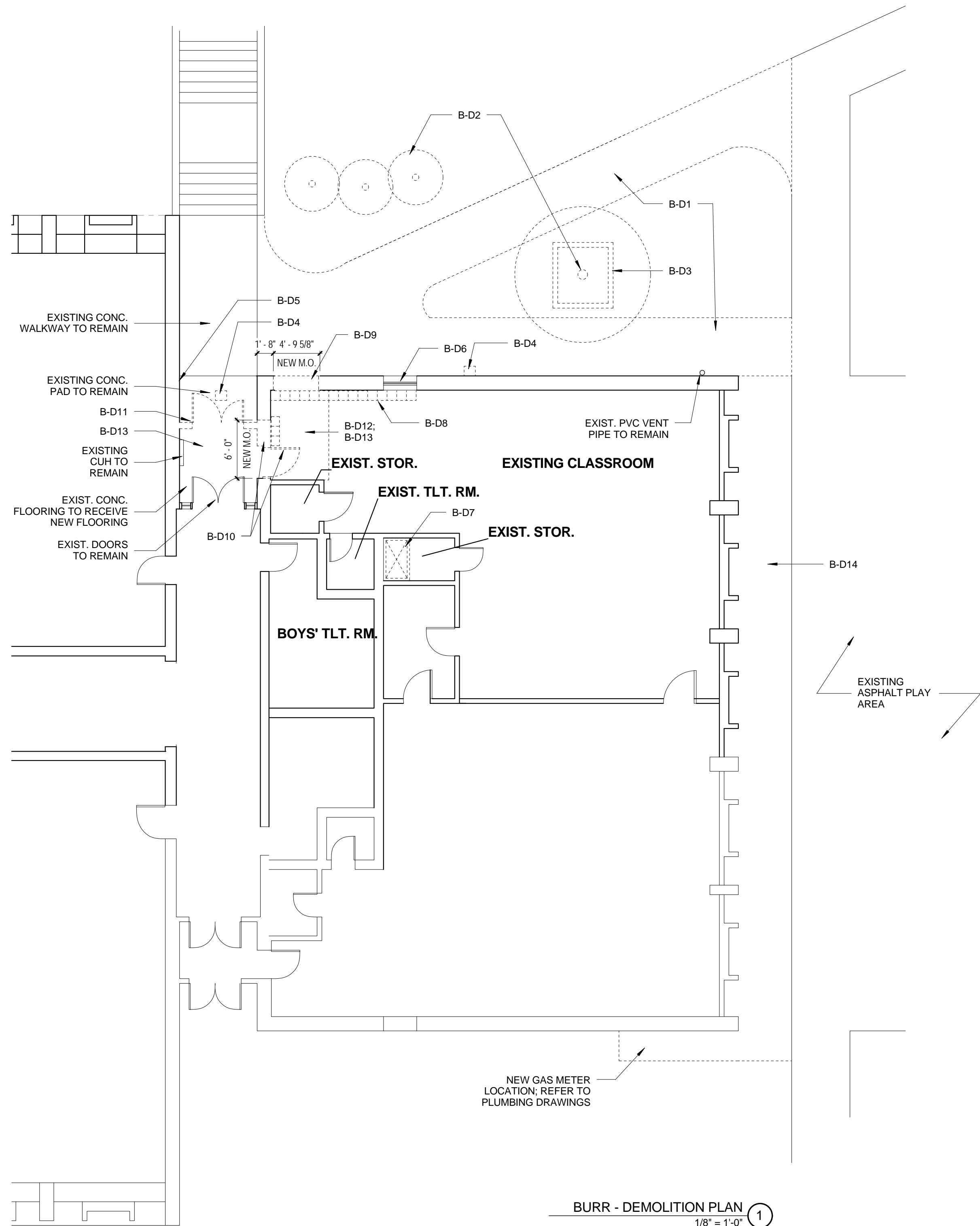
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BURR - FLOOR PLAN 2
1/8" = 1'-0"



BURR - DEMOLITION PLAN 1
1/8" = 1'-0"

DEMOLITION NOTES- BURR ELEMENTARY SCHOOL:

- B-D1.** EXISTING ASPHALT WALKWAY TO BE REMOVED. SAW-CUT AT EDGES WHERE EXISTING IS TO REMAIN.
- B-D2.** EXISTING TREES TO BE REMOVED.
- B-D3.** REMOVE RAILROAD TIES AND RAISED PLANTING BED AT TREE.
- B-D4.** EXISTING EXTERIOR LIGHT FIXTURE TO BE REMOVED. REER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- B-D5.** RELOCATE EXISTING CARD ACCESS READER TO EXTERIOR SIDE OF NEW EXTERIOR DOOR LOCATION.
- B-D6.** EXISTING EXHAUST FAN MOUNTED WITHIN EXISTING WINDOW SYSTEM TO BE ABANDONED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- B-D7.** EXISTING PREFAB SHOWER TO BE REMOVED. CUT & CAP PIPING. PATCH FLOORING. ALSO REFER TO PLUMBING DRAWINGS AND SPECIFICATIONS.
- B-D8.** EXISTING WOOD CUBBIES TO BE RELOCATED.
- B-D9.** NEW MASONRY OPENING THROUGH EXISTING EXTERIOR WALL FOR NEW ENTRY TO MODULAR CLASSROOM ADDITION. SALVAGE MASONRY FOR RE-USE FOR PATCHING OF EXISTING WALLS AT EDGES OF NEW OPENING.
- B-D10.** REMOVE EXISTING HOLLOW METAL DOOR FRAME AND DOOR. ENLARGE EXISTING MASONRY OPENING. SALVAGE EXISTING WOOD DOOR FOR RE-USE AT THE NEW ENTRY TO THE EXISTING CLASSROOM.
- B-D11.** REMOVE EXISTING MASONRY EXTERIOR WALL. PAIR OF FIBERGLASS DOORS, AND WOOD DOOR FRAME. SALVAGE FIBERGLASS DOORS AND ASSOCIATED HARDWARE FOR RE-USE AT NEW EXTERIOR DOOR ENTRY LOCATION.
- B-D12.** REMOVE EXISTING VCT FLOORING.
- B-D13.** REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM AND LIGHTING AS NECESSARY.
- B-D14.** LAWN AREA TO BE TRENCHED FOR UNDERGROUND PIPING OF NATURAL GAS FROM NEW GAS METER LOCATION TO NEW CLASSROOM ADDITION.

NEW CONSTRUCTION NOTES - BURR ELEMENTARY SCHOOL:

- B-C1.** RELOCATE EXISTING WOOD CUBBIES TO ACCOMMODATE MODIFIED ENTRANCE TO THE EXISTING CLASSROOM. FINAL LOCATION TO BE DETERMINED BY OWNER.
- B-C2.** REPLACE EXISTING CUT SPANDREL PANEL WITH A NEW INSULATED METAL PANEL WHERE EXISTING EXHAUST DUCT IS REMOVED.
- B-C3.** INTERIOR EXPANSION JOINT COVERS AT FLOOR, WALL, AND CEILING.
- B-C4.** EXTERIOR EXPANSION JOINT AT WALL- CONTINUES AT ROOF.
- B-C5.** NEW EXTERIOR STOREFRONT GLAZING SYSTEM AT RELOCATED ENTRY. ALSO REFER TO EXTERIOR ELEVATION.
- B-C6.** RELOCATE EXISTING EXTERIOR FIBERGLASS DOORS AND ASSOCIATED HARDWARE TO NEW STOREFRONT FRAME. INSTALL NEW METAL THRESHOLD. VERIFY DIMENSIONS OF EXISTING DOOR TO BE RE-USED (APPROX. 5'-3"x7'-0").
- B-C7.** NEW ENTRY MAT.
- B-C8.** NEW VCT FLOORING.
- B-C9.** NEW 2"x2' SUSPENDED ACOUSTICAL CEILING SYSTEM.
- B-D10.** NEW LAY-IN FLUORESCENT LIGHT FIXTURE(S) IN NEW CEILING SYSTEM. ALSO REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- B-C11.** NEW INTERIOR PARTITION.
- B-C12.** RELOCATED WOOD DOOR WITH NEW HARDWARE.
- B-C13.** NEW INTERIOR WOOD VENEER DOOR IN NEW HOLLOW METAL FRAME.
- B-C14.** NEW DOWNSPOUT
- B-C15.** BACKFILL TRENCHING AND RE-SEED WITH GRASS.
- B-C12.** SOLAR LIGHT TUBES WITH BLACK-OUT SHADES- ALTERNATE UPGRADE.



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Modular Classroom Additions
Newton, MA
BURR FLOOR PLANS

SCALE 1/8" = 1'-0" DRAWN BY: Author CHECKED BY: Author

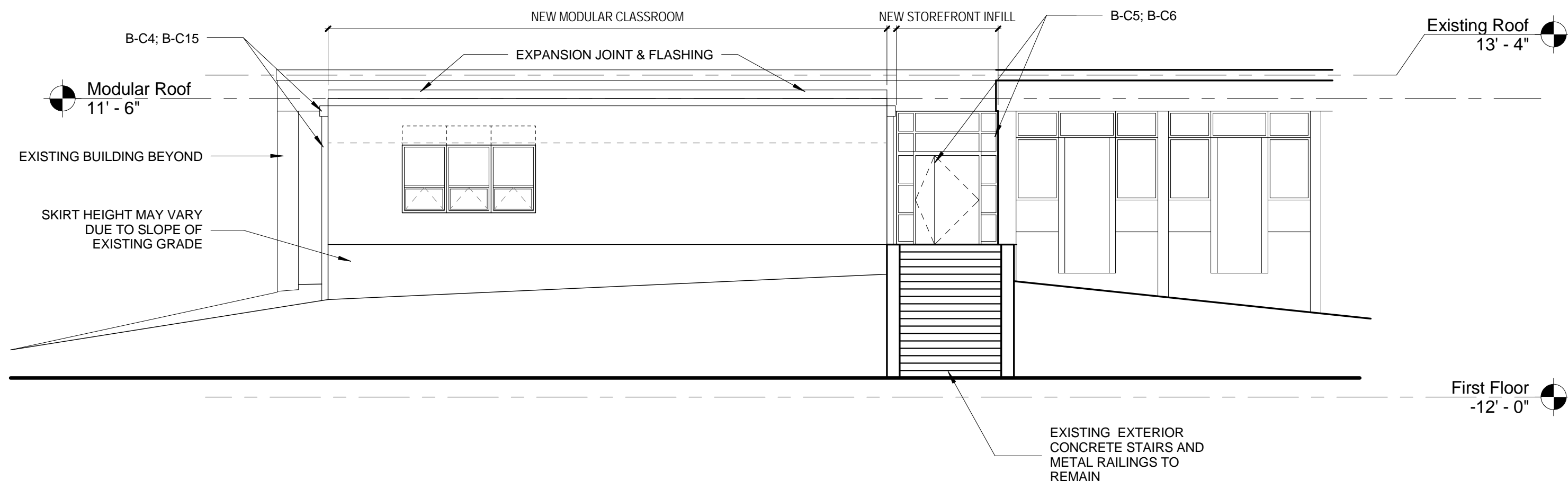
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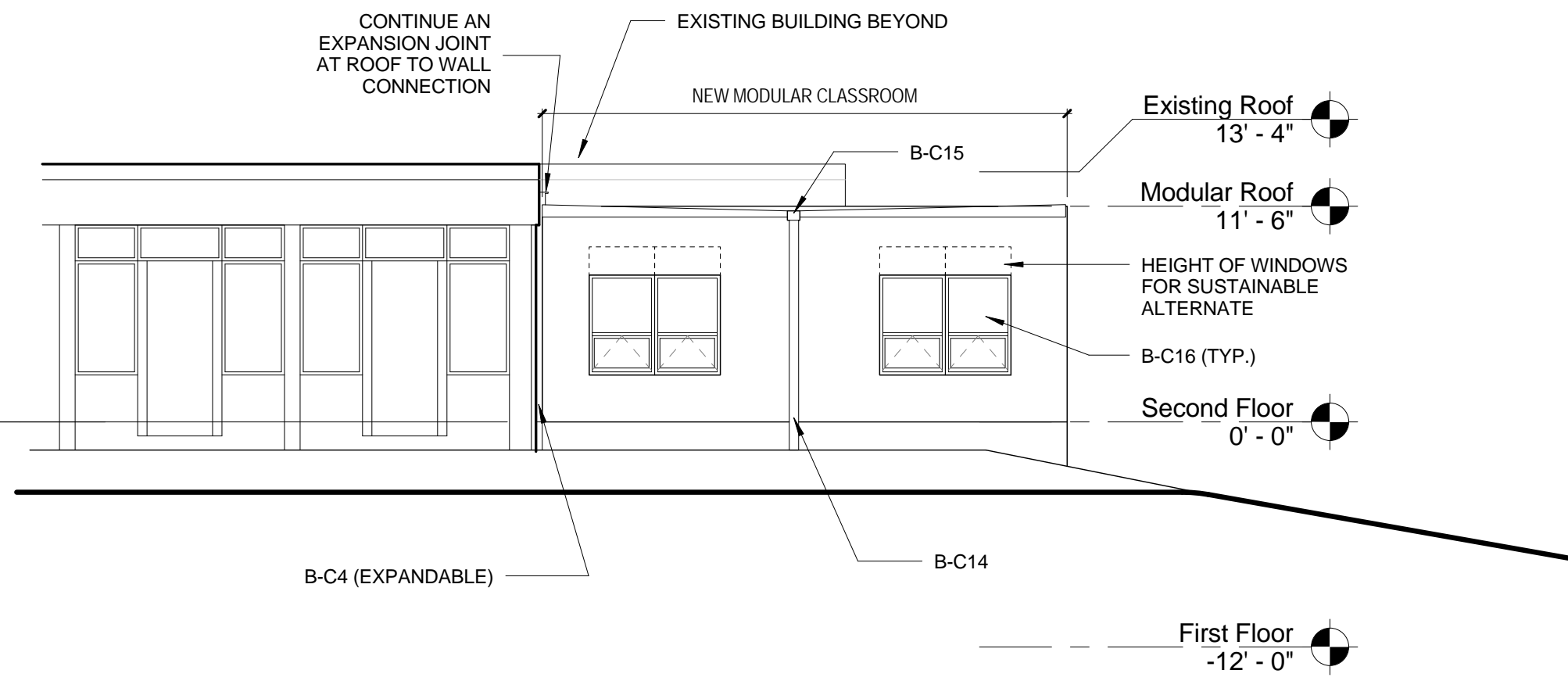
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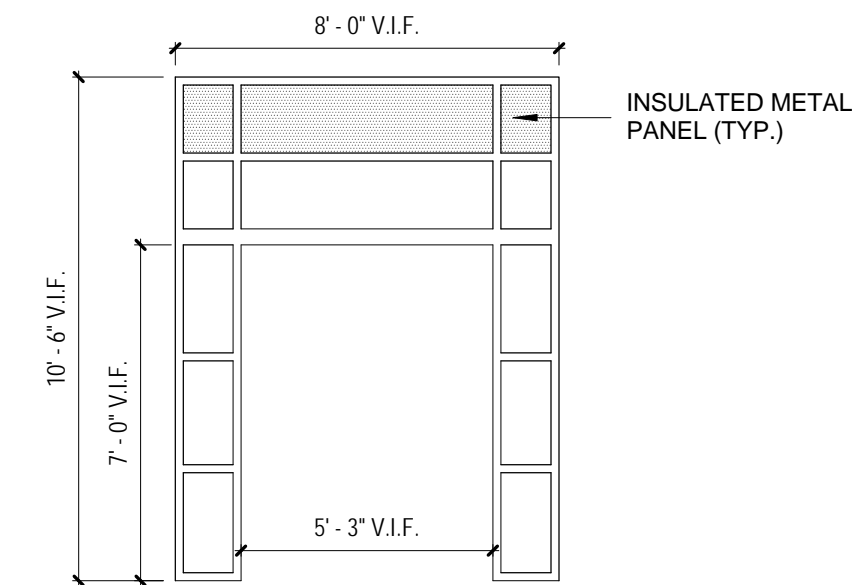
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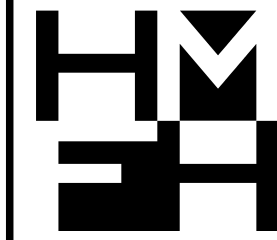
BURR - NORTHWEST ELEVATION 1
1/8" = 1'-0"



BURR - NORTHEAST ELEVATION 2
1/8" = 1'-0"



BURR - ALUM. STOREFRONT ELEV. 3
1/4" = 1'-0"



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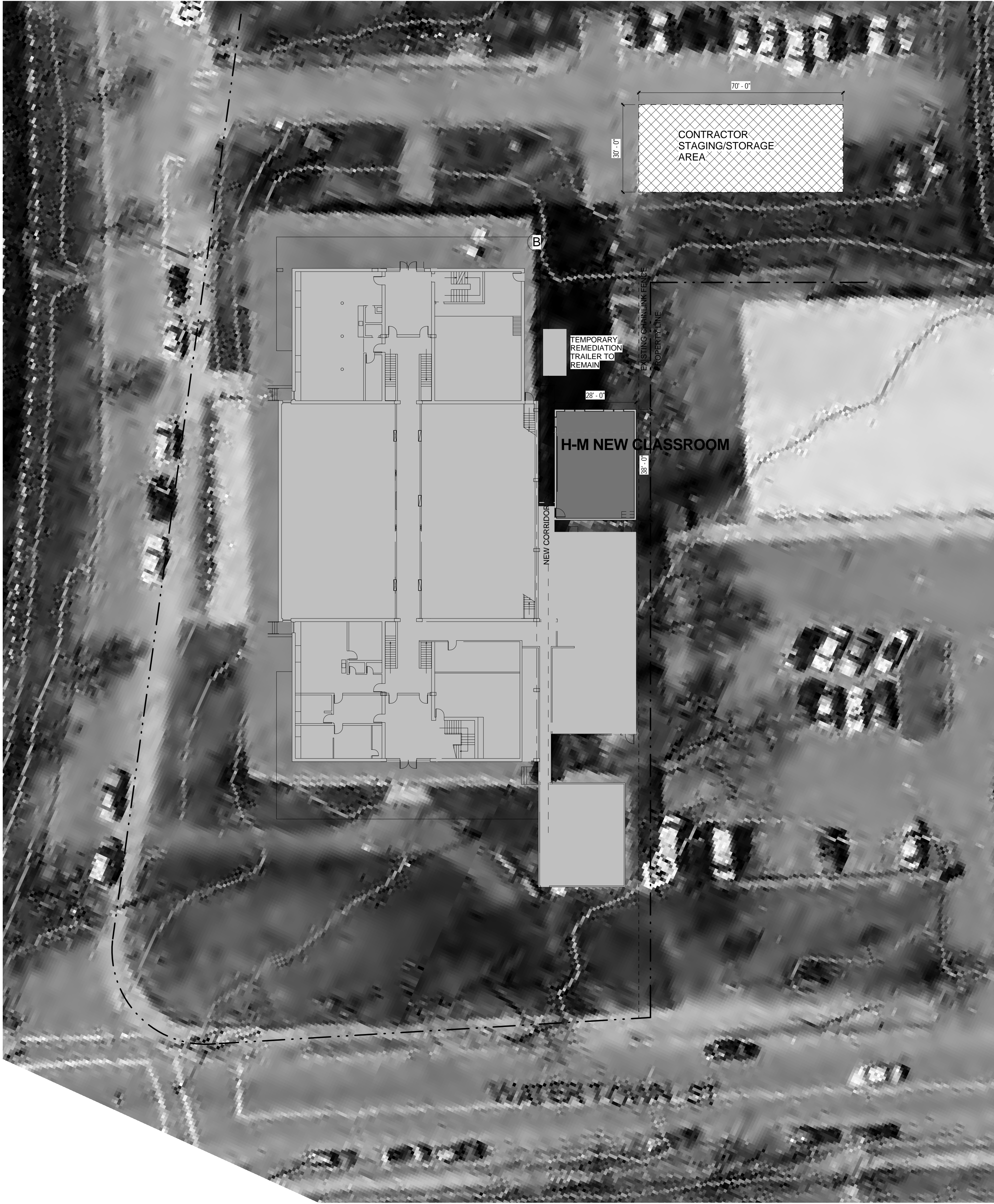
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Modular Classroom Additions
Newton, MA
BURR EXTERIOR ELEVATIONS
SCALE As indicated DRAWN BY Author CHECKED BY Author

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HORACE MANN - SITE PLAN 1
1" = 20'-0"

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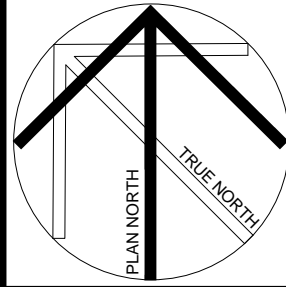
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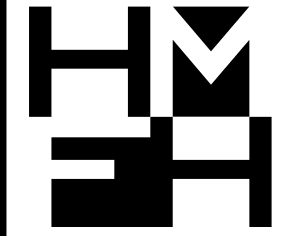
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Modular Classroom Additions
Newton, MA
Horace-Mann Site Plan
SCALE 1" = 20'-0"
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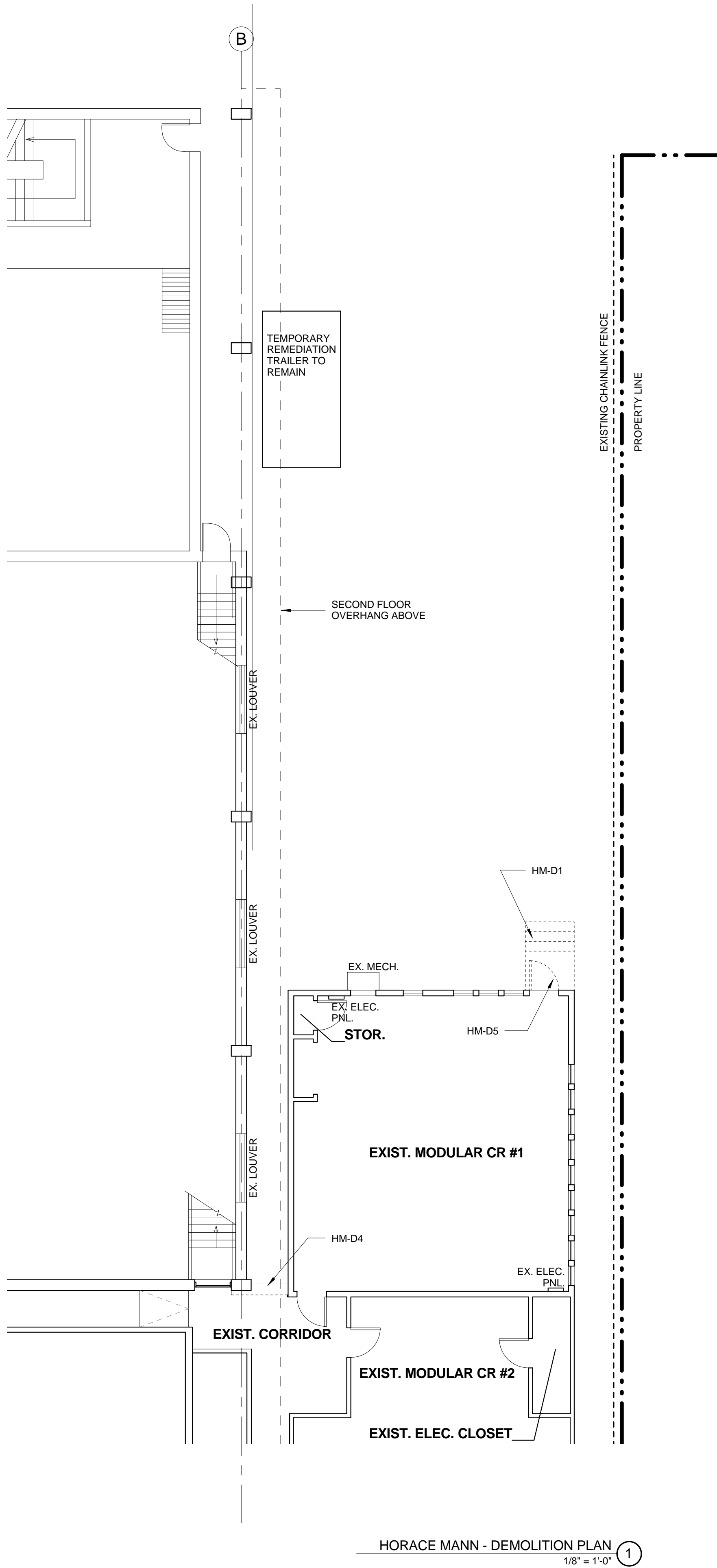
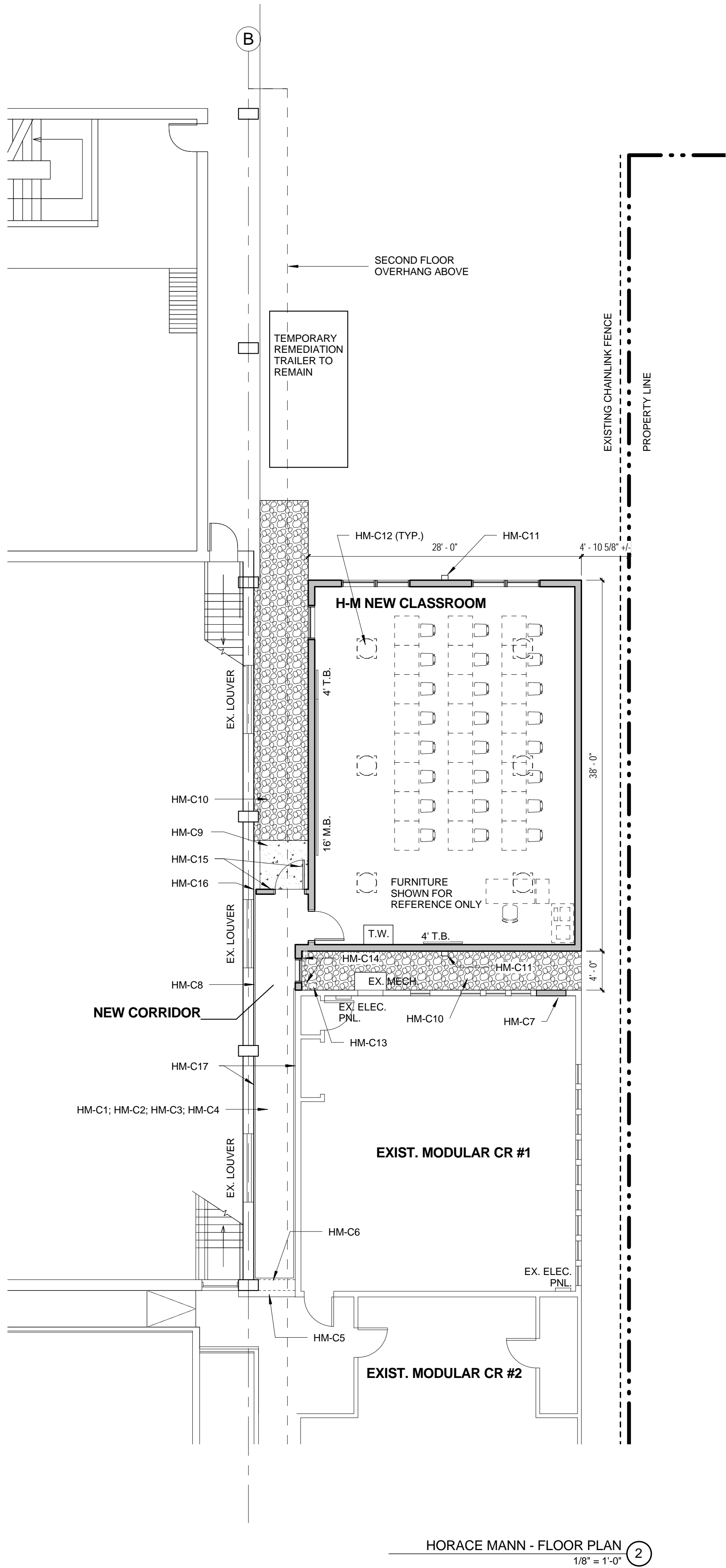
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DEMOLITION NOTES- HORACE-MANN ELEMENTARY SCHOOL:

- HM-D1. REMOVE EXISTING WOOD STAIRS AND LANDING.
- HM-D2. NOT USED
- HM-D3. NOT USED
- HM-D4. EXISTING EXTERIOR LIGHT GAUGE METAL FRAMED WALL TO BE REMOVED FOR NEW CORRIDOR.
- HM-D5. REMOVE EXISTING EXTERIOR DOOR.

NEW CONSTRUCTION NOTES - HORACE MANN ELEMENTARY SCHOOL:

- HM-C1. INFILL CORRIDOR. FLOOR SYSTEM TO BE INDEPENDENTLY STRUCTURED WITH EXPANSION JOINTS BETWEEN NEW AND EXISTING CONSTRUCTION. THE NEW INFILL CORRIDOR WILL BE SURROUNDED BY EXISTING CONDITIONED SPACES EXCEPT: (a) BELOW THE NEW FLOOR AND (b) AT THE GAP BETWEEN THE EXIS WEST WALLS OF THE EXISTING MODULAR CLASSROOM AND THE PROPOSED NEW MODULAR ADDITION WILL NEED TO BE CLOSED SUCH THAT IT IS INSULATED AND ALLOWS EXISTING AND NEW ROOFS TO POSITIVELY DRAIN.
- HM-C2. NEW 2'x2' SUSPENDED ACOUSTICAL CEILING AT MAXIMUM HEIGHT POSSIBLE.
- HM-C3. NEW LAY-IN FLUORESCENT LIGHT FIXTURES.
- HM-C4. NEW VCT FLOORING.
- HM-C5. TRANSITION STRIPS BETWEEN EXISTING CARPET AND NEW RESILIENT FLOORING.
- HM-C6. NEW G.W.B. SOFFIT/HEADER TO TRANSITION BETWEEN EXISTING SUSPENDED ACOUSTICAL CEILING AND NEW ACOUSTICAL CEILING.
- HM-C7. NEW G.W.B. AND STEEL STUD INFILL OF FORMER EXTERIOR DOOR OPENING. FINISH INTERIOR SIDE WITH LINOLEUM TACK-BOARD. FINISH EXTERIOR SIDE WITH WOOD SIDING TO MATCH EXISTING WOOD SIDING AND PAINT TO MATCH.
- HM-C8. INTERIOR EXPANSION JOINTS.
- HM-C9. NEW CONCRETE PAD AT FINISH FLOOR ELEVATION.
- HM-D10. CRUSHED STONE PATH WITH ROOT BARRIER UNDERNEATH- A CONTINUATION OF THE CRUSHED STONE BELOW THE FOOTPRINT OF THE NEW MODULAR CLASSROOM.
- HM-C11. NEW DOWNSPOUT AND SCUPPER. TIE DOWNSPOUT INTO CRUSHED STONE WELL PER THE TYPICAL DETAIL ON SHEET A.0.
- HM-C12. SOLAR LIGHT TUBES WITH BLACK-OUT SHADES- ALTERNATE UPGRADE.
- HM-C13. MODIFY EXISTING DOWNSPOUT AT CORNER OF EXISTING MODULAR CLASSROOM DUE TO NEW CONSTRUCTION.
- HM-C14. ROOF AT CORRIDOR INFILL BETWEEN NEW CLASSROOM AND EXISTING CLASSROOM TO BE AT LOWEST ELEVATION TO COLLECT RAIN WATER IN NARROW SPACE BETWEEN HIGH WALLS OF EXISTING AND NEW MODULAR CLASSROOMS. NEW GUTTER AND DOWNSPOUT AT THIS 4' LENGTH OF EXTERIOR WALL.
- HM-C15. NEW EXTERIOR FIBERGLASS DOOR IN ALUMINUM STOREFRONT FRAME. NEW EXTERIOR WALL TO MATCH CONSTRUCTION OF NEW MODULAR CLASSROOM ADDITION.
- HM-C16. EXTERIOR EXPANSION JOINT FILLER/COVER.
- HM-C17. EXTISTING EXTERIOR MASONRY, CONCRETE WALLS, WOOD PANELS OF EXISTING MODULAR BUILDING, AND EXISTING EXTERIOR LOUVERS TO BE CLEANED AND PAINTED.



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Modular Classroom Additions
Newton, MA
Horace-Mann Floor Plans
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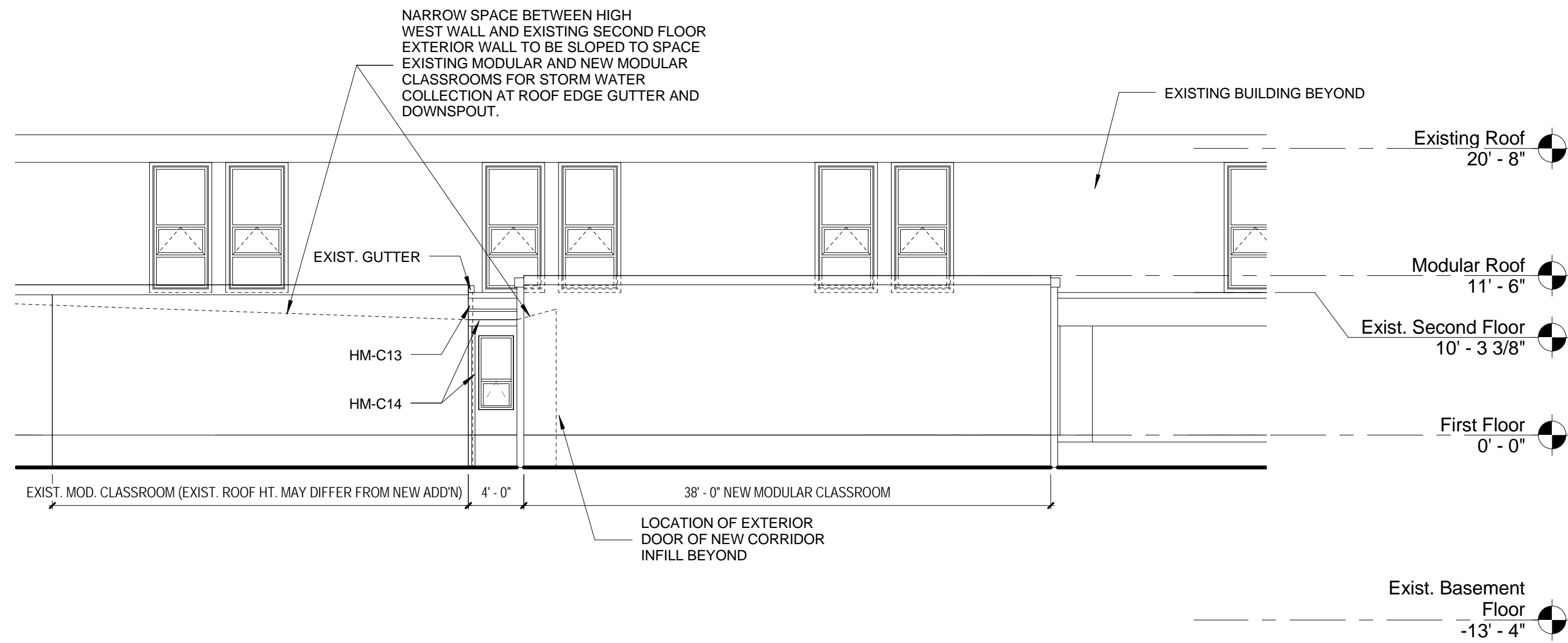
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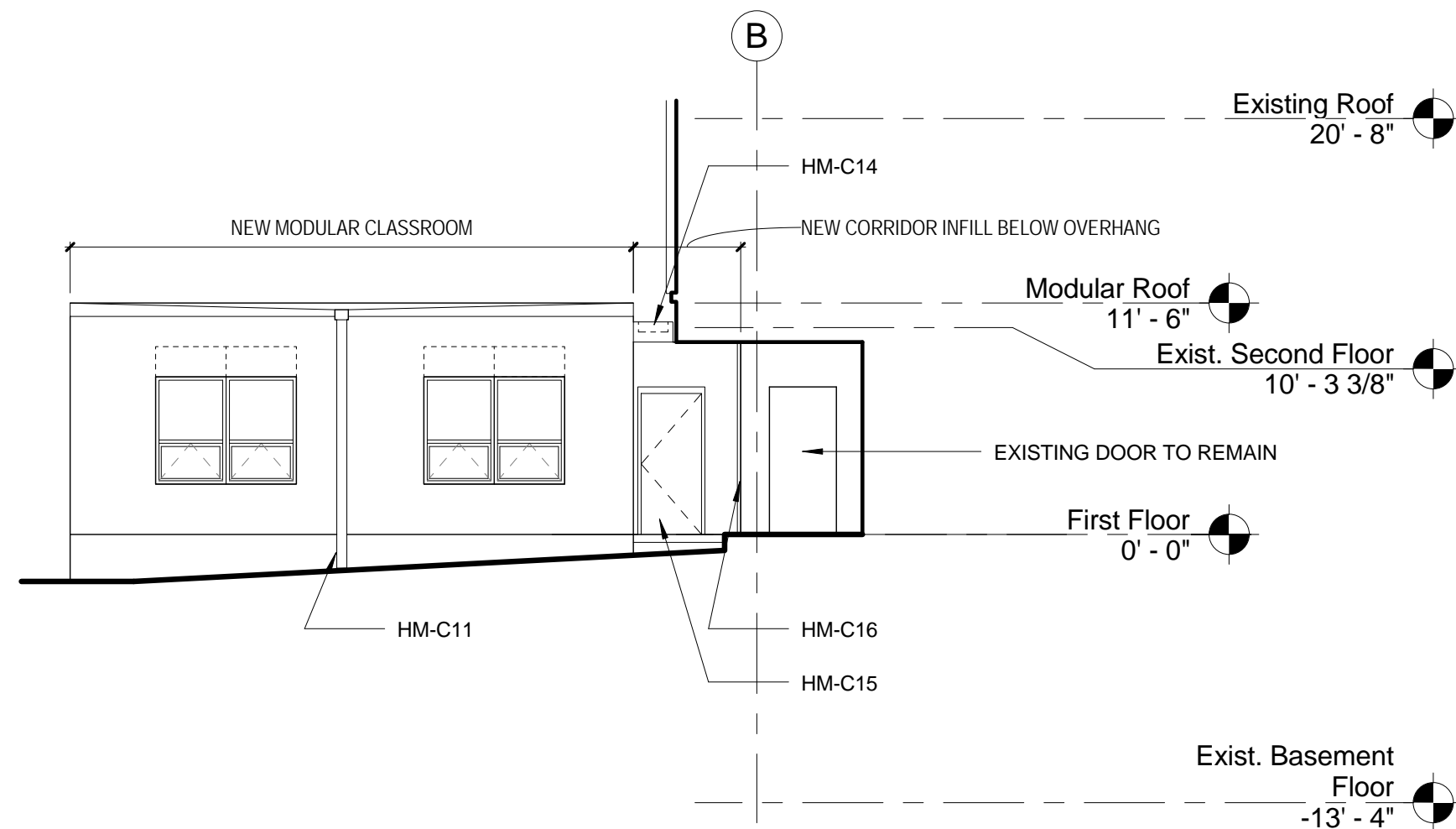
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HORACE MANN - EAST ELEVATION ①
1/8" = 1'-0"



HORACE MANN - NORTH ELEVATION ②
1/8" = 1'-0"

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Modular Classroom Additions
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EXTERIOR ELEVATIONS

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Modular Classroom Additions
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ZERVAS - SITE PLAN

SCALE 1" = 20'-0"

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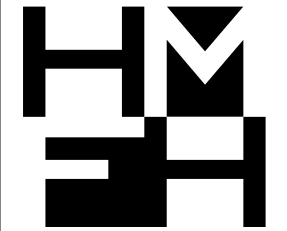
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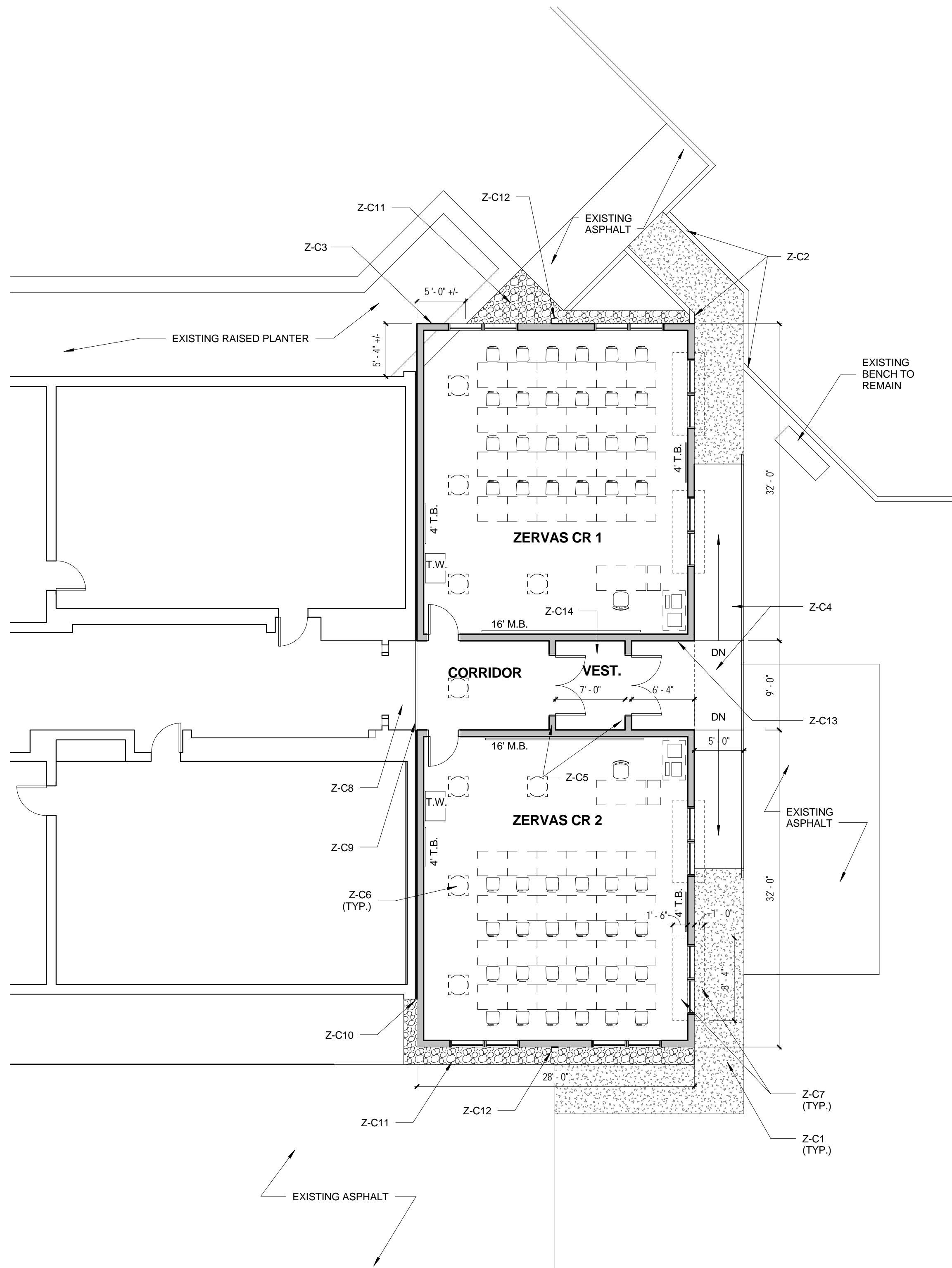
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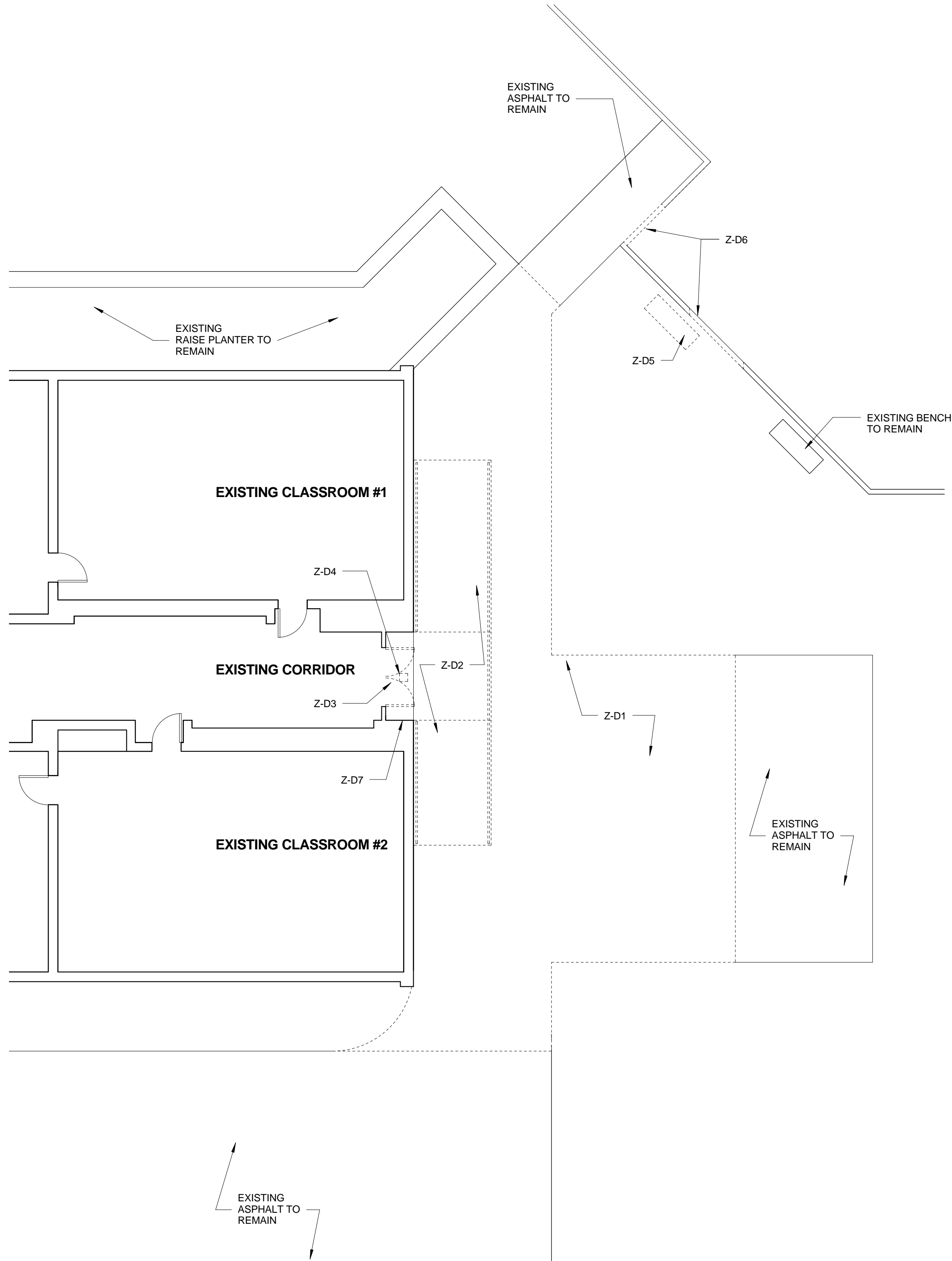


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ZERVAS - FLOOR PLAN 2
1/8" = 1'-0"



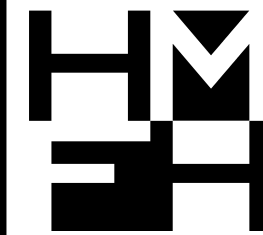
ZERVAS - DEMOLITION PLAN 1
1/8" = 1'-0"

DEMOLITION NOTES- ZERVAS ELEMENTARY SCHOOL:

- Z-D1.** EXISTING ASPHALT WALKWAY TO BE REMOVED. SAW-CUT AT EDGES WHERE EXISTING IS TO REMAIN.
- Z-D2.** EXISTING CONCRETE RAMP, LANDING, AND RAILINGS TO BE REMOVED IN THEIR ENTIRETY.
- Z-D3.** EXISTING FIBERGLASS DOORS AND ASSOCIATED DOOR HARDWARE TO BE REMOVED AND RE-INSTALLED IN NEW ALUMINUM STOREFRONT FRAMES AT MODULAR CLASSROOM ENTRY.
- Z-D4.** EXISTING EXTERIOR LIGHT FIXTURE TO BE REMOVED. REER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- Z-D5.** EXISTING SITE FURNITURE BENCH TO BE REMOVED AND RELOCATED. NEW LOCATION PER OWNER.
- Z-D6.** MODIFY EXISTING TIMBER PLAYGROUND BORDER TO BE MODIFIED FOR NEW LIMITS OF NEW ASPHALT WALKWAY.
- Z-D7.** EXISTING DOOR BUZZER/INTERCOM TO BE RELOCATED TO NEW MODULAR CLASSROOM ENTRY.

NEW CONSTRUCTION NOTES - ZERVAS ELEMENTARY SCHOOL:

- Z-C1.** NEW ASPHALT WALKWAY.
- Z-C2.** MODIFY EXISTING PERIMETER WALKWAY/PLAYGROUND TIMBERS PER THE NEW WALKWAY CONFIGURATION.
- Z-C3.** CORNER OF NEW MODULAR CLASSROOM TO CANTILEVER OVER EXISTING RAISED PLANTER BED. MODIFY SKIRT AS NECESSARY. TOP OF PLANTER BED WALL APPROXIMATELY 24" ABOVE GRADE. VARIES AS GRADE GRADUALLY SLOPES DOWN AWAY FROM THE BUILDING.
- Z-C4.** NEW ELEVATED METAL RAMPS AND LANDINGS.
- Z-C5.** NEW EXTERIOR STOREFRONT GLAZING SYSTEM AT RELOCATED ENTRY AND AT INTERIOR VESTIBULE. NEW ALUMINUM DOORS AT INTERIOR VESTIBULE AND RELOCATED EXISTING FIBERGLASS DOORS AT NEW EXTERIOR DOOR ENTRY. ALSO REFER TO EXTERIOR ELEVATION.
- Z-C6.** SOLAR LIGHT TUBES WITH BLACKOUT SHADES.
- Z-C7.** FOR SUSTAINABLE UPGRADE: TALLER FIBERGLASS WINDOWS IN LIEU OF ALUMINUM WINDOWS. FOR ZERVAS ONLY: INTERIOR AND EXTERIOR LIGHT SHELVES ON THE SOUTH ELEVATION.
- Z-C8.** NEW SUSPENDED ACOUSTIC CEILING SYSTEM. EXISTING BLUESTONE PAVERS TO REMAIN AT FORMER EXTERIOR LANDING. VCT FLOORING FOR THE NEW MODULAR CLASSROOM ADDITION CORRIDOR.
- Z-C9.** INTERIOR EXPANSION JOINT COVERS AT FLOOR, WALL, AND CEILING.
- Z-D10.** EXTERIOR EXPANSION JOINT FILLER/COVER. JOINT CONTINUES AT ROOF/WALL INTERSECTION ABOVE.
- Z-C11.** MINIMUM 4" BED OF CRUSHED STONE BELOW NEW ADDITIONS AND EXTENDING AS SHOWN BEYOND NEW ADDITION FOOTPRINT. ALSO EXTEND BELOW CRUSHED STONE BELOW METAL RAMPS AND LANDINGS.
- Z-C12.** DOWNSPOUT AND SCUPPER.
- Z-C13.** RELOCATED DOOR BUZZER/INTERCOM.
- Z-C14.** ENTRY MAT FLOORING, SUSPENDED ACOUSTIC CEILING SYSTEM IN VESTIBULE.



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**BID SET
08/1/2011**

Modular Classroom Additions
Newton, MA
ZERVAS - FLOOR PLANS

SCALE 1/8" = 1'-0" DRAWN BY: Author CHECKED BY: Author

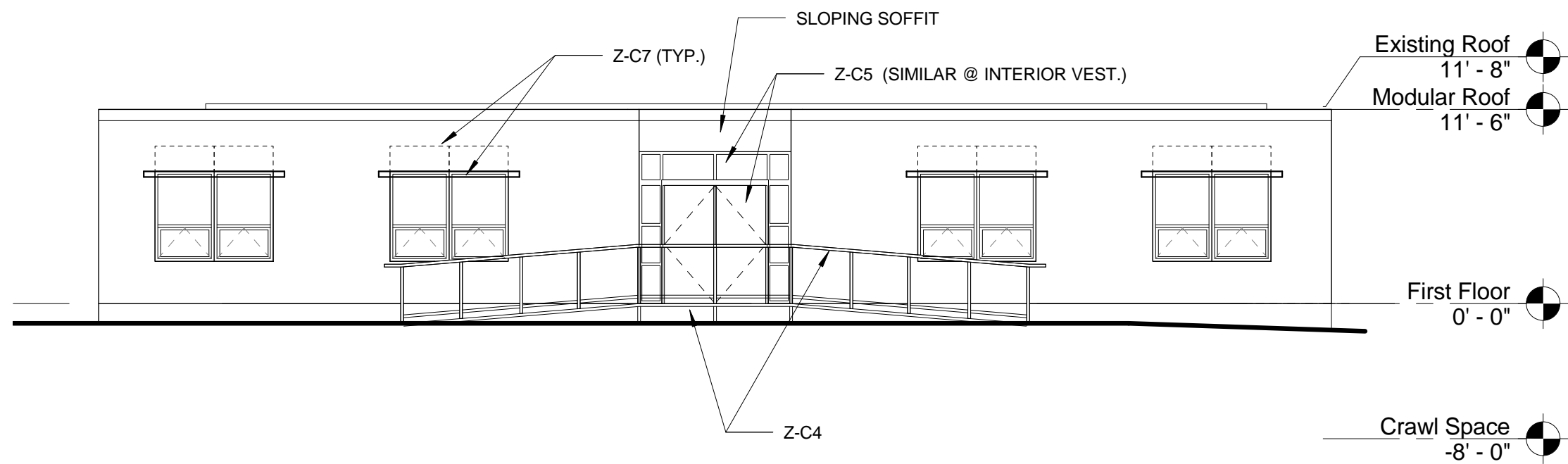
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Z-A2

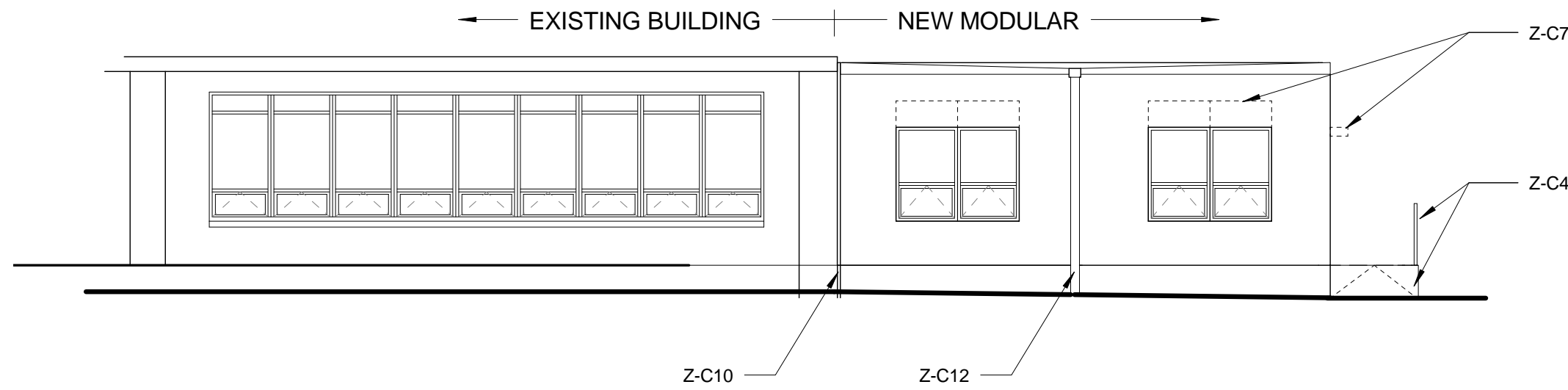
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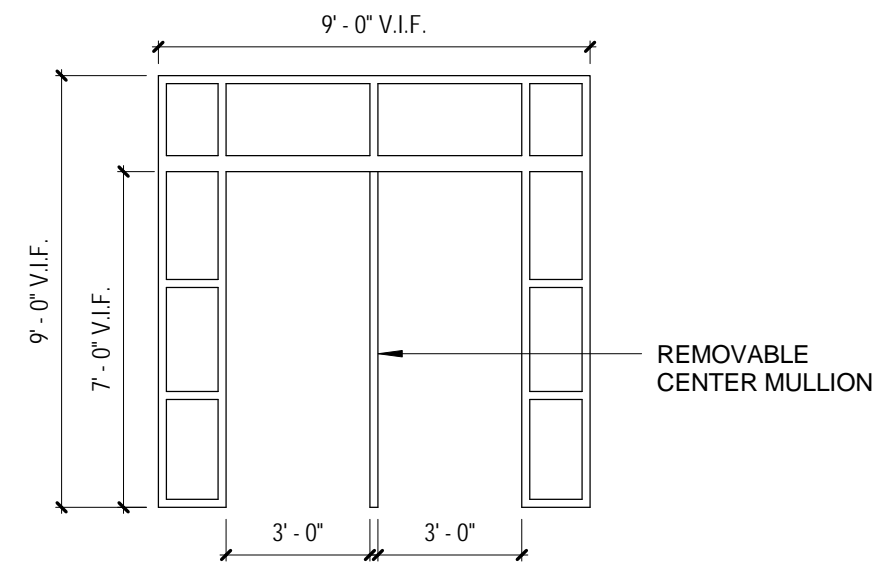
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ZERVAS SOUTH ELEVATION
1/8" = 1'-0" ①



ZERVAS WEST ELEVATION
1/8" = 1'-0" ②



NOTE: RELOCATE EXISTING FIBERGLASS
EXTERIOR DOORS TO NEW EXTERIOR ENTRY
WITH ASSOCIATED DOOR HARDWARE.
NEW ALUMINUM DOORS AT INTERIOR
VESTIBULE

ALUMINUM STOREFRONT ELEVATION
1/4" = 1'-0" ③

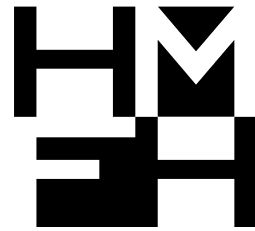
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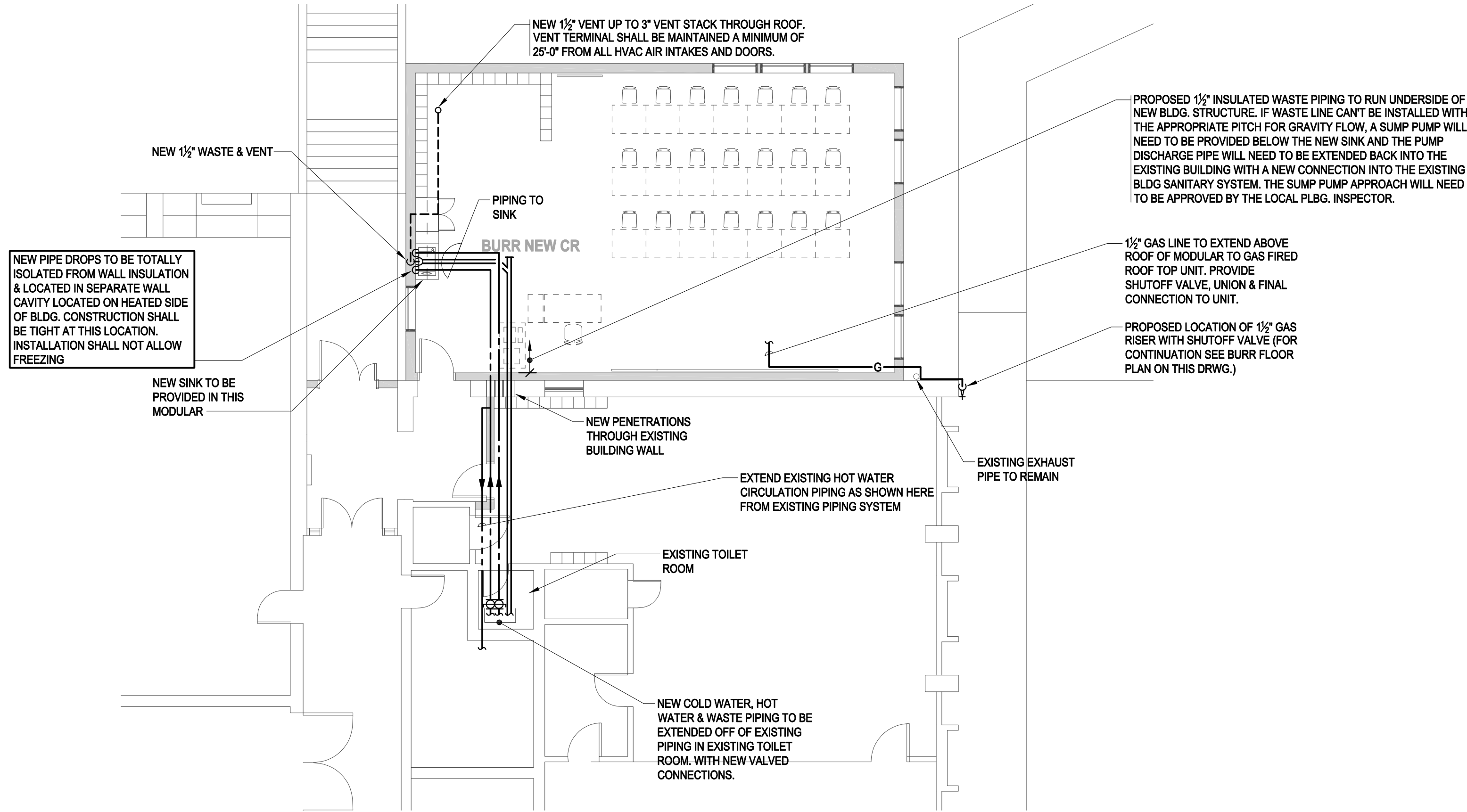
Modular Classroom Additions
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ZERVAS - EXTERIOR ELEVATIONS
SCALE As indicated DRAWN BY Author CHECKED BY Author

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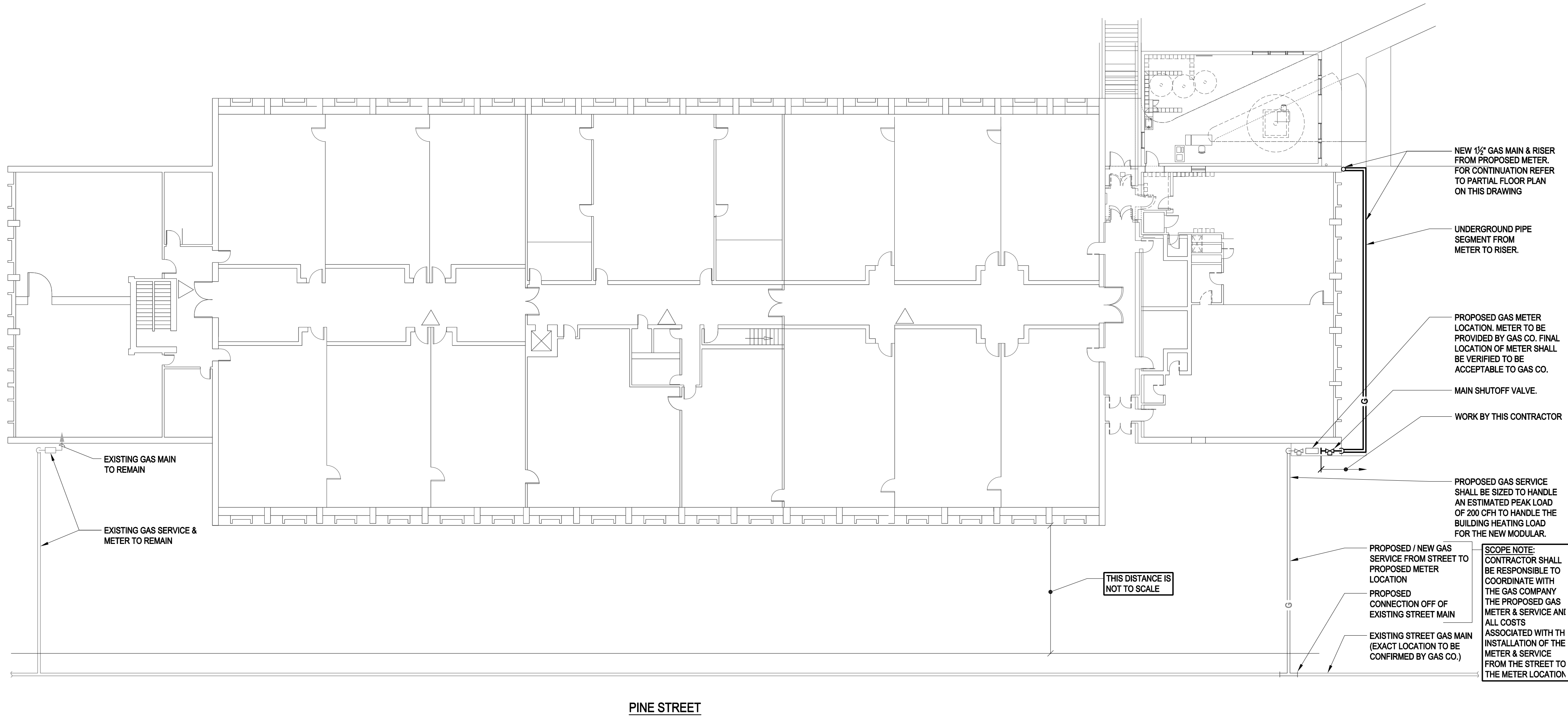
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1 BURR PARTIAL FLOOR PLAN
Scale: 1/8" = 1'-0"



2 BURR FLOOR PLAN
Scale: 1/16" = 1'-0"

REVISIONS NO.	DATE	REMARKS	BY	DRAWING NUMBER
	8-11-11	SCOPE DOCUMENTS		

Modular Classroom Additions
Newton, MA
BURR FLOOR PLAN

B-P1

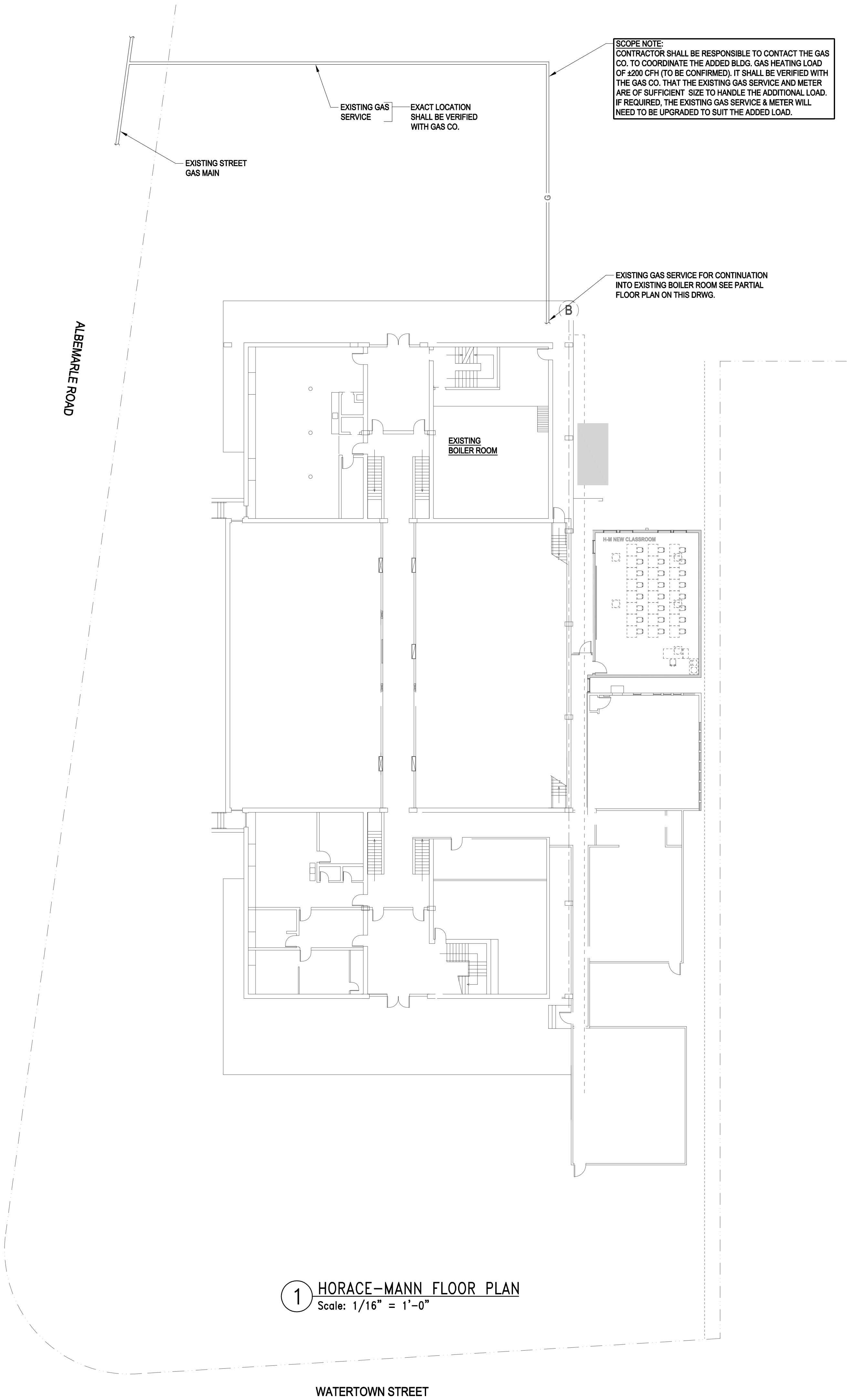
JOB NUMBER 11-2485
Sheet 3 of 03

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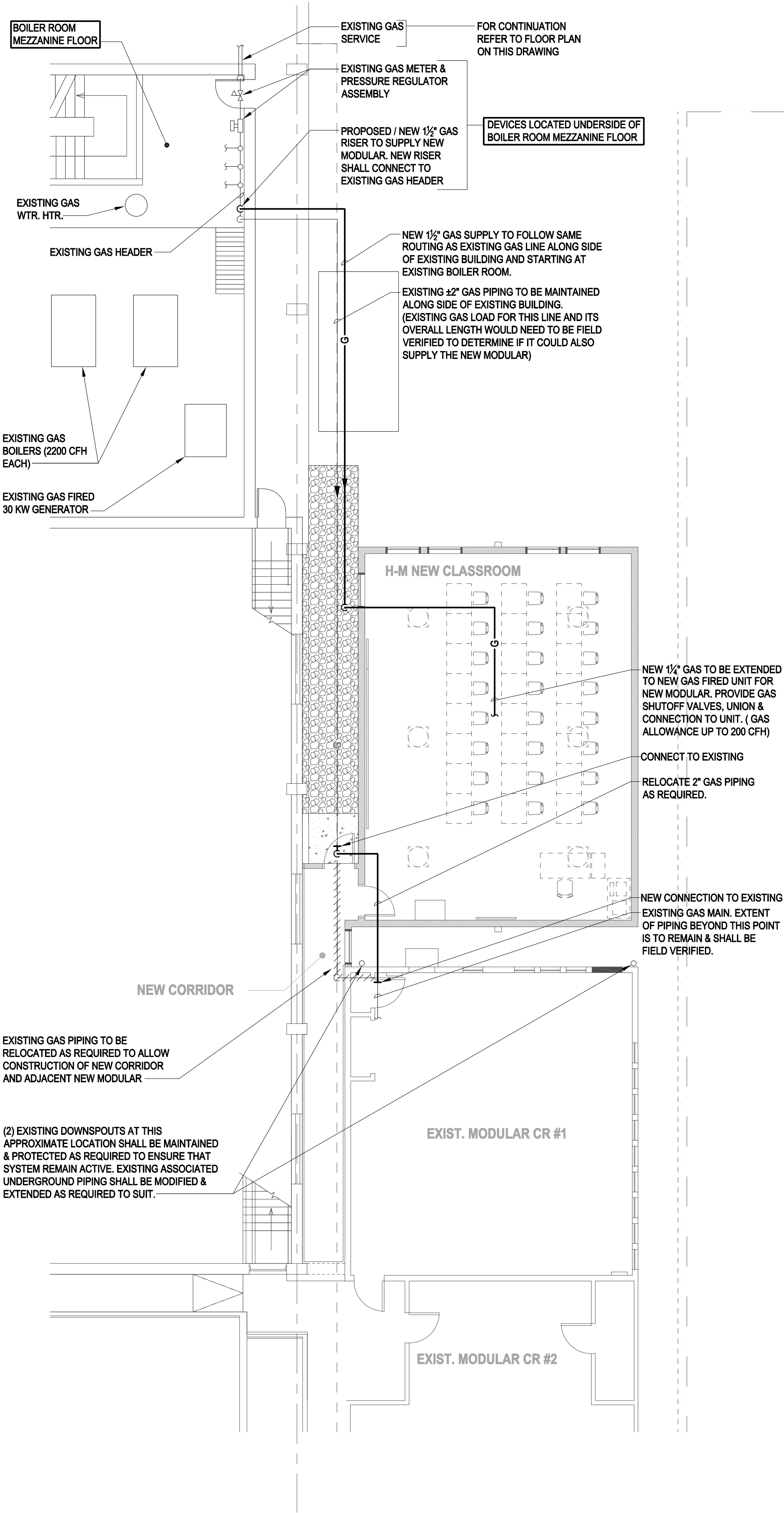
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THE FOLLOWING ARCHITECTURAL FILES WERE UPDATED ON 06/24/11 485aHM01 (from files received on 06/23/11)



1 HORACE-MANN FLOOR PLAN
Scale: 1/16" = 1'-0"

WATERTOWN STREET



2 HORACE-MANN PARTIAL FLOOR PLAN
Scale: 1/8" = 1'-0"

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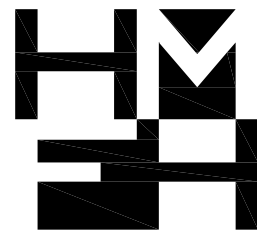
JOB NUMBER 11-2485

HM-P1

Modular Classroom Additions
Newton, MA
HORACE-MANN FLOOR PLAN
SCALE AS SHOWN DRAWN BY CG CHECKED BY GC

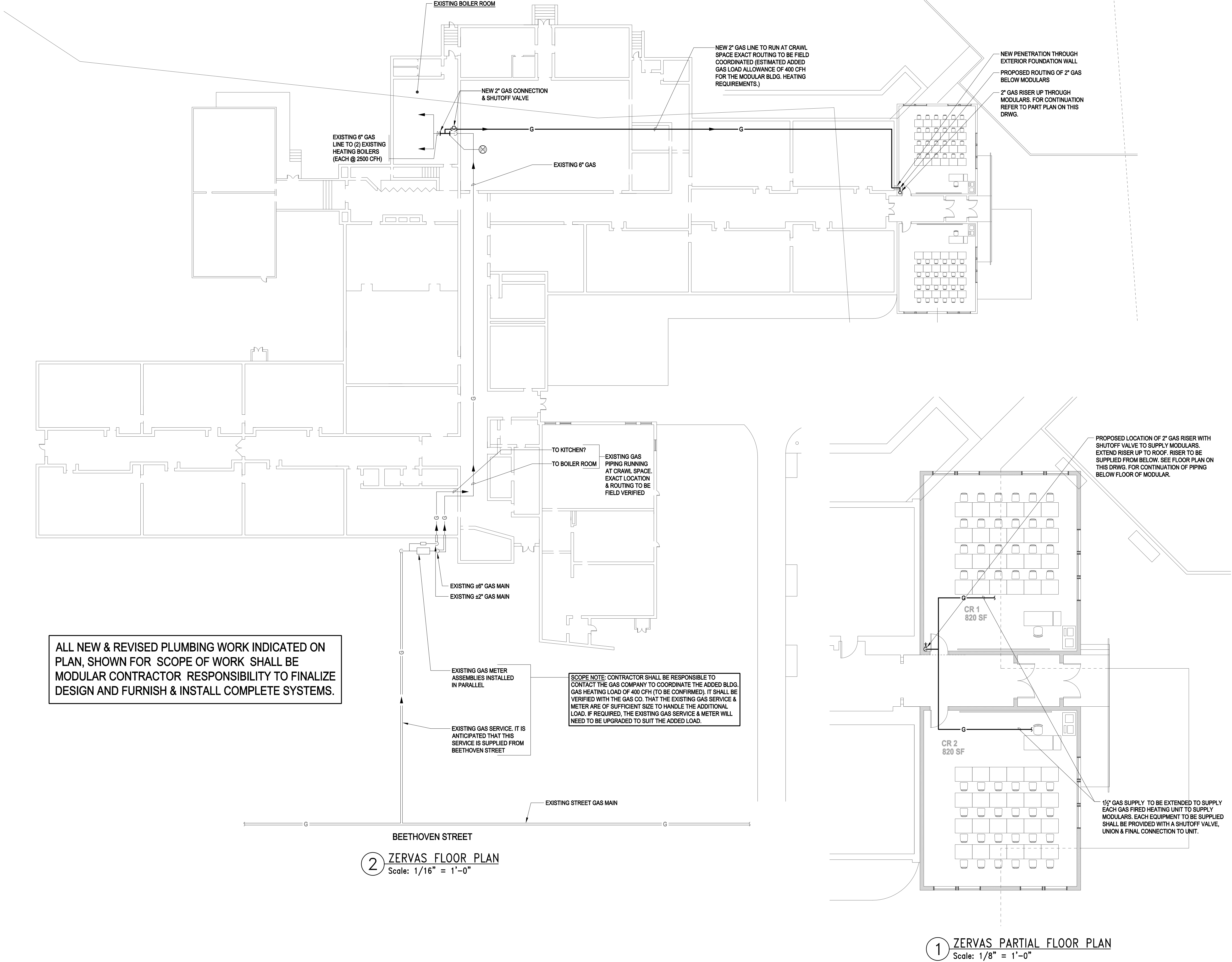
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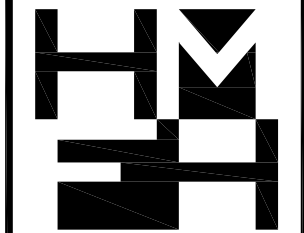
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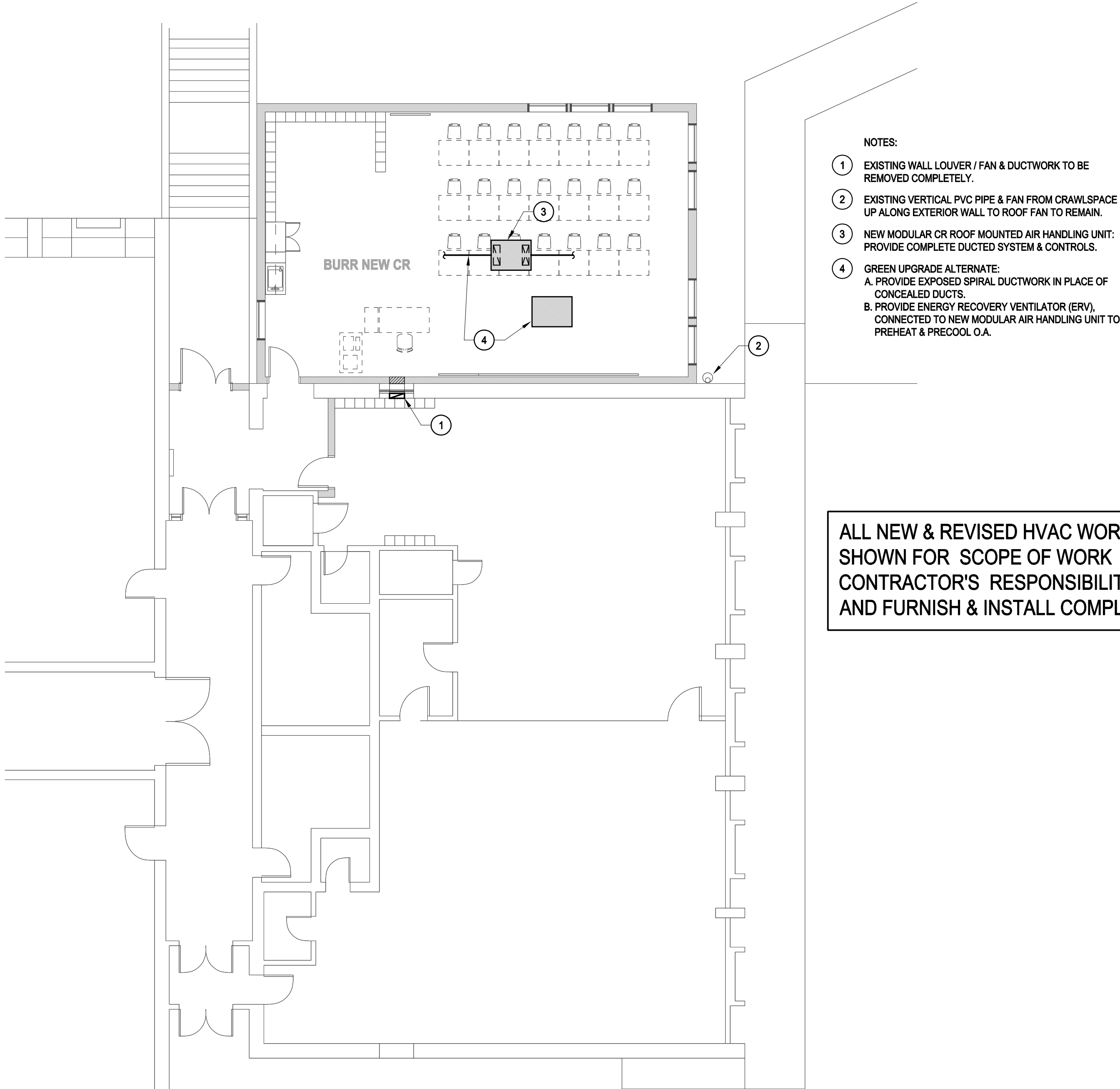
Modular Classroom Additions
Newton, MA
ZERVAS FLOOR PLAN
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Z-P1

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- NOTES:
- 1 EXISTING WALL LOUVER / FAN & DUCTWORK TO BE REMOVED COMPLETELY.
 - 2 EXISTING VERTICAL PVC PIPE & FAN FROM CRAWLSPACE UP ALONG EXTERIOR WALL TO ROOF FAN TO REMAIN.
 - 3 NEW MODULAR CR ROOF MOUNTED AIR HANDLING UNIT: PROVIDE COMPLETE DUCTED SYSTEM & CONTROLS.
 - 4 GREEN UPGRADE ALTERNATE:
A. PROVIDE EXPOSED SPIRAL DUCTWORK IN PLACE OF CONCEALED DUCTS.
B. PROVIDE ENERGY RECOVERY VENTILATOR (ERV), CONNECTED TO NEW MODULAR AIR HANDLING UNIT TO PREHEAT & PRECOOL O.A.

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B-M1

JOB NUMBER 11-2485

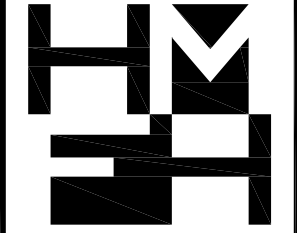
Modular Classroom Additions
Newton, MA

BURR FLOOR PLAN

SCALE 1/8" = 1' 0"
DRAWN BY AMM
CHECKED BY MCS

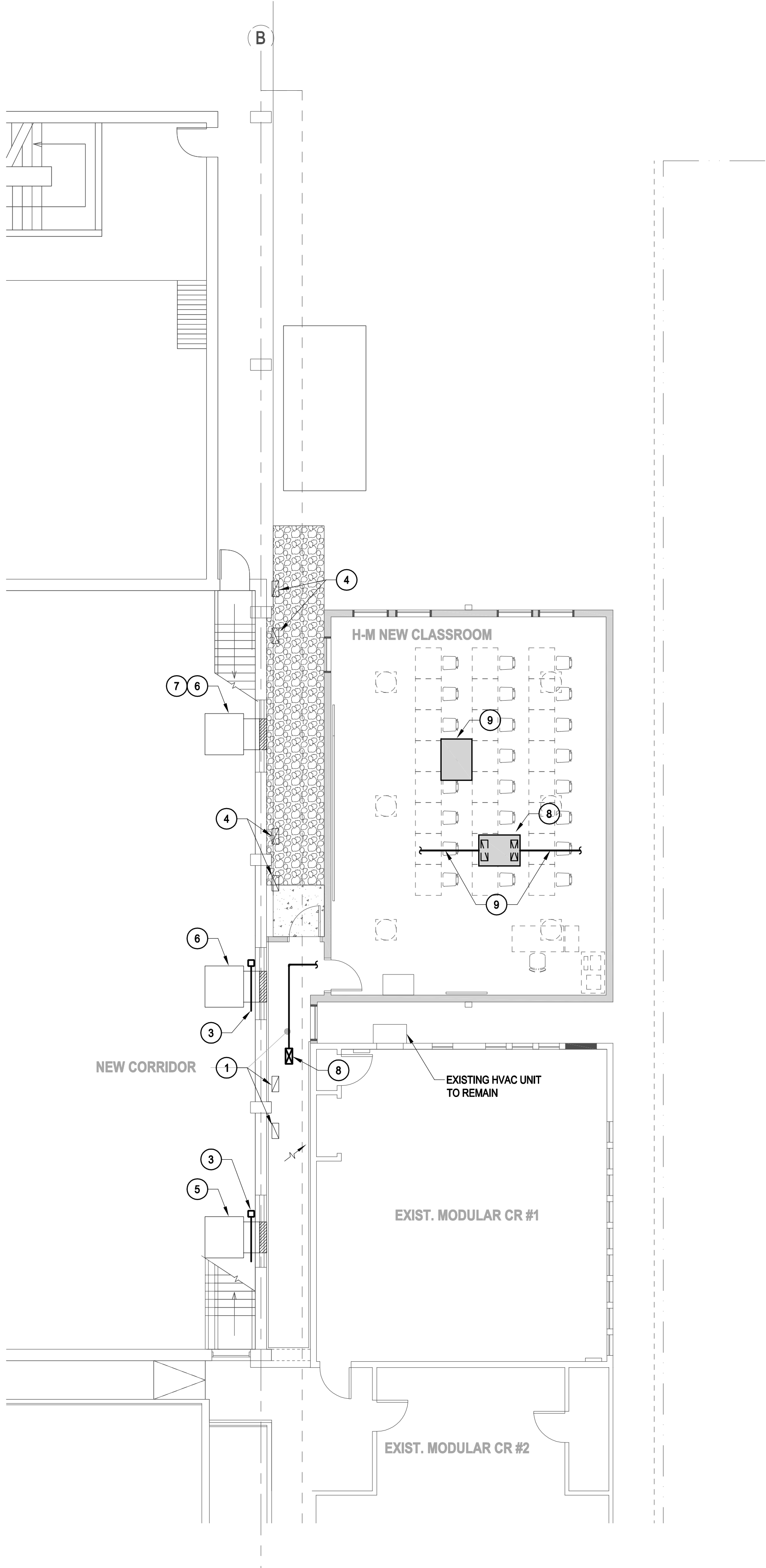
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NOTES:

- 1 EXISTING CR UNIT VENT OUTSIDE AIR CONNECTIONS TO BE CAPPED AS THEY ARE NO LONGER USABLE. THEY ARE CONTAINED WITHIN NEW MODULAR CORRIDOR CEILING. PROVIDE NEW ENERGY RECOVERY UNIT IN CLASSROOM ABOVE TO PROVIDE OA AS REQUIRED FOR THIS CLASSROOM. REFER TO SPECIFICATION FOR NEW UNIT INFORMATION.
- 2 PROVIDE NEW SUPPLY DUCT DN. THRU ROOF & RECONNECT TO EXISTING SUPPLY MAIN. PROVIDE DUCTED GRILLE FOR NEW CORRIDOR HEAT. NEW RETURN TO DROP DN. THRU ROOF IN AREA OF CLOSET & CONNECT TO NEW RETURN GRILLE.
- 3 CLOSE OUTSIDE AIR DAMPER.
- 4 EXISTING CR UNIT VENT OA CONNECTIONS TO REMAIN ACTIVE.
- 5 ASSEMBLY ROOM EXISTING AIR HANDLING UNIT, THIS UNIT CURRENTLY ACTIVE. NEW MODULAR CORRIDOR WILL BLOCK UNIT INTAKE, THEREFORE MAKING THIS UNIT UNUSABLE TO SERVICE SPACE, DEACTIVATE UNIT.
- 6 ASSEMBLY ROOM EXISTING AIR HANDLING UNIT (S). CURRENTLY INACTIVE. VERIFY WITH OWNER.
- 7 EXISTING UNIT CURRENTLY INACTIVE. REPAIR & ACTIVATE UNIT TO SERVE ASSEMBLY SPACE, AS THIS IS ONLY UNIT IN SPACE WHERE NEW MODULAR CORRIDOR, DOES NOT BLOCK OFF EXISTING OUTDOOR AIR LOUVER.
- 8 NEW MODULAR CR ROOF MOUNTED AIR HANDLING UNIT: PROVIDE COMPLETE DUCTED SYSTEM & CONTROLS. PROVIDE SUPPLY & RETURN AIR & HEAT TO NEW CORRIDOR.
- 9 GREEN UPGRADE ALTERNATE:
A. PROVIDE EXPOSED SPIRAL DUCTWORK IN PLACE OF CONCEALED DUCTS.
B. PROVIDE ENERGY RECOVERY VENTILATOR (ERV), CONNECTED TO NEW MODULAR AIR HANDLING UNIT TO PREHEAT & PRECOOL O.A.

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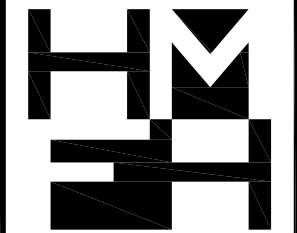
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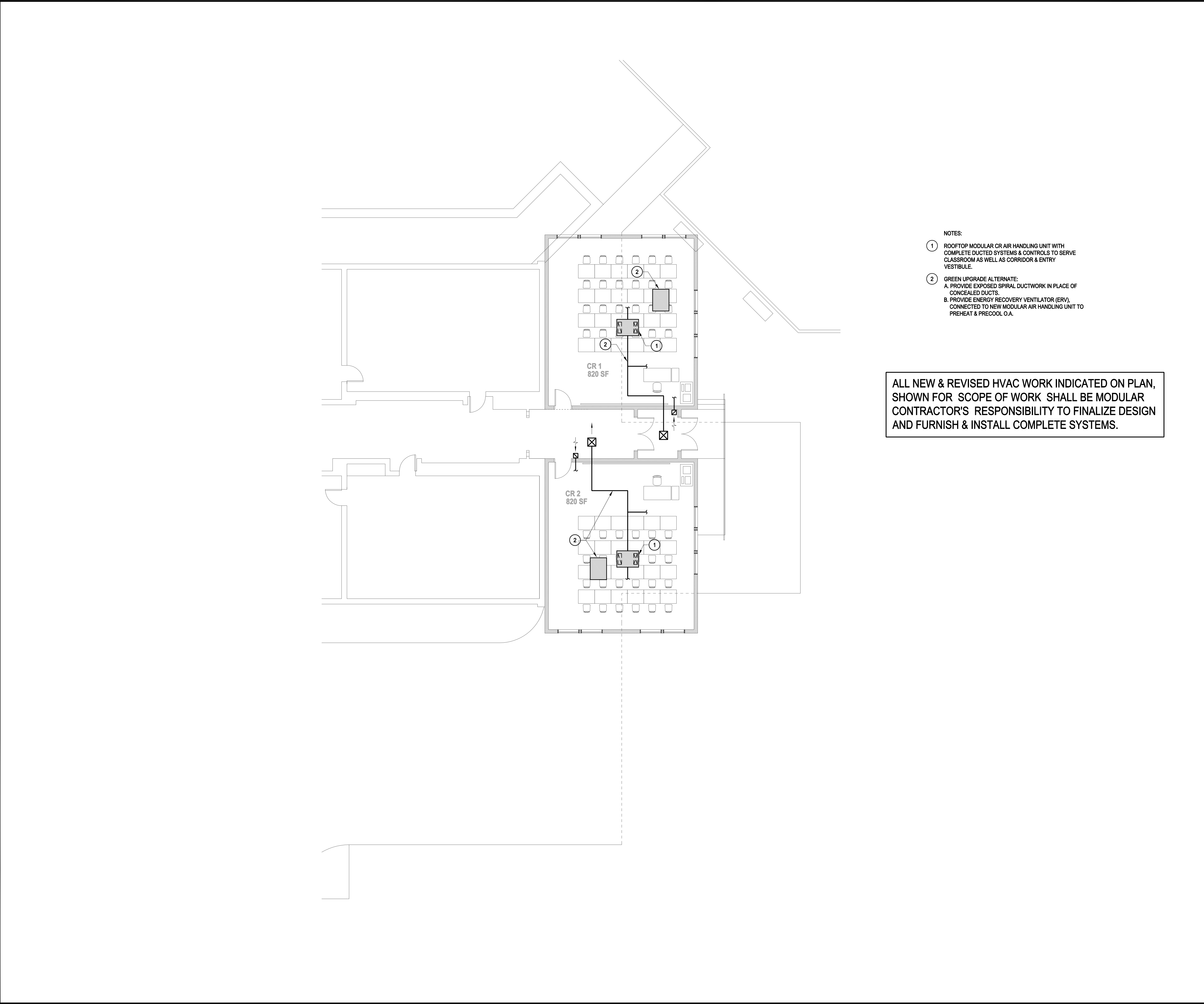
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HM-M1	
JOB NUMBER	11-2485

Modular Classroom Additions
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HORACE-MANN FLOOR PLAN
SCALE 1/8" = 1' 0"
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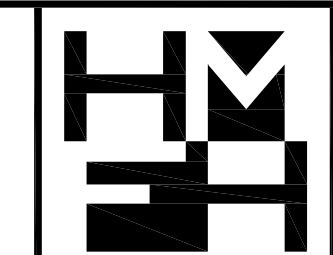
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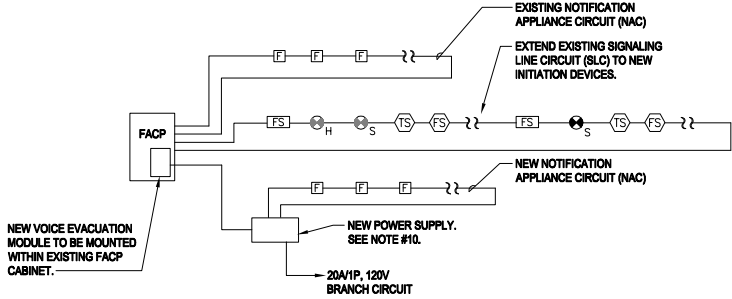
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JOB NUMBER	11-2485

Modular Classroom Additions
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ZERVAS FLOOR PLANS
SCALE 1/8" = 1' 0"
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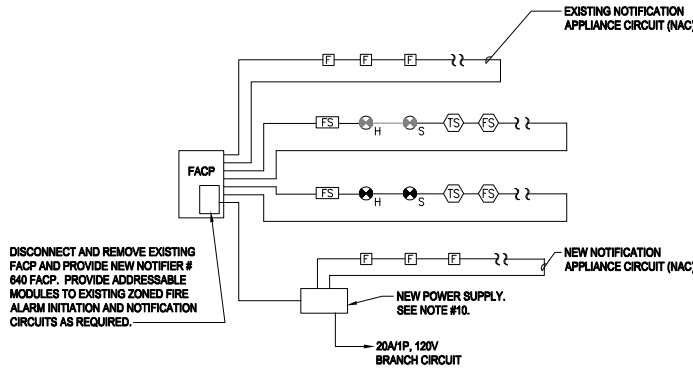
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ZERVAS PARTIAL FIRE ALARM FIRE DIAGRAM

Scale: Not To Scale

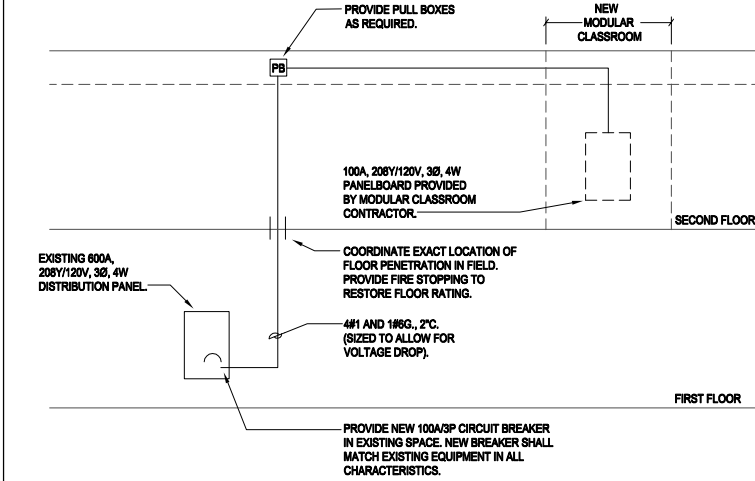


BURR AND HORACE-MANN PARTIAL FIRE ALARM FIRE DIAGRAM

Scale: Not To Scale

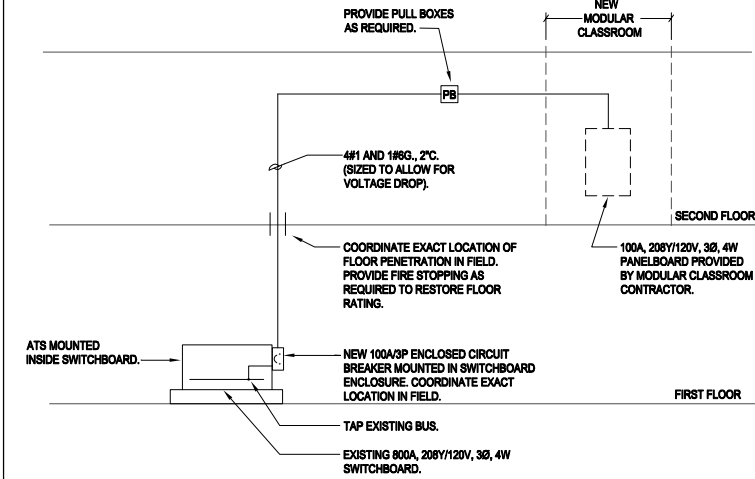
FIRE ALARM RISER NOTES:

- ALL FIRE ALARM WIRING SHALL BE IN ACCORDANCE WITH EXISTING SYSTEM MANUFACTURER'S REQUIREMENT AND SHALL BE RUN IN IMC CONDUIT UNLESS USE OF MC CABLE IS APPROVED BY THE OWNER AND AHI. ALL JUNCTION BOXES AND CONDUIT COUPLINGS SHALL BE PAINTED RED. MC CABLE ARMOR SHALL BE RED.
- RISER DIAGRAMS ARE DIAGRAMMATIC.
- FIRE ALARM APPLIANCES SHALL MATCH EXISTING TYPE, MANUFACTURER AND STYLE AND SHALL BE LISTED FOR USE WITH THE EXISTING SYSTEM. NEW STROBE APPLIANCES SHALL MEET ADA AND NFPA REQUIREMENTS.
- FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA 72 AND AHJ REQUIREMENTS. THE OWNER'S FIRE ALARM SERVICE COMPANY OF RECORD SHALL PERFORM ALL REQUIRED TESTING. THE ELECTRICAL CONTRACTOR SHALL CARRY COSTS FOR ALL TESTING IN HIS BID.
- COORDINATE EXISTING SYSTEM WIRING CLASS AND STYLE WITH OWNER AND FIRE ALARM SERVICE COMPANY OF RECORD. MATCH EXISTING WIRING STANDARDS UNLESS OTHERWISE DIRECTED.
- COORDINATE RESIZING AND REPLACEMENT OF END-OF-LINE RESISTORS (IF APPLICABLE) WITH FIRE ALARM SERVICE COMPANY OF RECORD.
- ALL WIRING SHALL BE MADE ON TERMINAL BLOCKS. SPLICING IS NOT ALLOWED.
- ALL FINAL CONNECTIONS AND PROGRAMMING SHALL BE PERFORMED BY THE FIRE ALARM SERVICE COMPANY OF RECORD.
- FURNISH ALL REQUIRED COMPONENTS, CARDS, MODULES, RELAYS, CONTACTS AND WIRING IN FIRE ALARM CONTROL PANEL OR SUB-PANEL SERVING THE AREA OF WORK TO ACCOMMODATE NEW WORK. ALL WORK IN THESE PANELS SHALL BE PERFORMED BY THE FIRE ALARM SERVICE COMPANY OF RECORD. THE COST FOR THIS WORK SHALL BE CARRIED IN THE ELECTRICAL CONTRACTORS BID.
- PROVIDE ADDITIONAL NAC EXTENSION PANELS AND/OR POWER SUPPLIES IF EXISTING SYSTEM BATTERY CAPACITY IS INSUFFICIENT FOR ADDITIONAL LOADS.
- NOTIFICATION CIRCUITS SHALL BE SYNCHRONIZED.



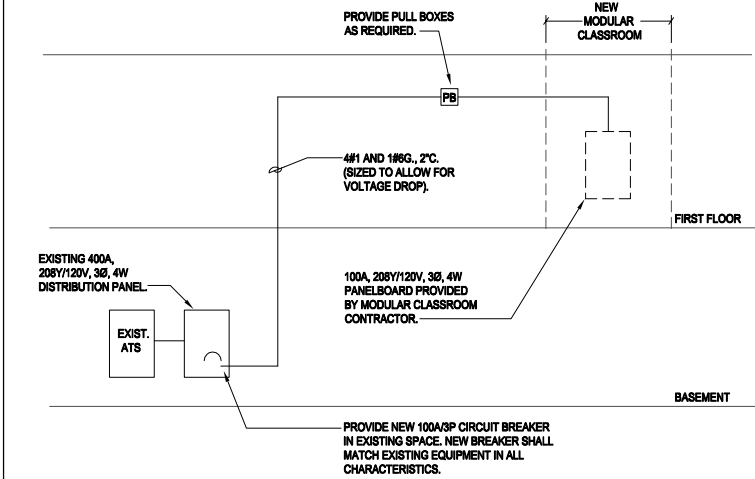
BURR PARTIAL POWER DISTRIBUTION RISER DIAGRAM

Scale: Not To Scale



HORACE MANN PARTIAL POWER DISTRIBUTION RISER DIAGRAM

Scale: Not To Scale



ZERVAS PARTIAL POWER DISTRIBUTION RISER DIAGRAM

Scale: Not To Scale

ELECTRICAL LEGEND

- PANELBOARD.
- PULL BOX.
- JUNCTION BOX.
- EMERGENCY WALL MOUNTED LIGHTING FIXTURE.
- RACEWAY AND WIRE RUN.
- TURNING DOWN.
- TURNING UP.
- FLEXIBLE METAL CONDUIT.
- FIRE ALARM PULL STATION.
- FIRE ALARM AVV APPLIANCE.
- SMOKE DETECTOR.
- HEAT DETECTOR.
- FLOW SWITCH.
- TAMPER SWITCH.
- FIRE ALARM CONTROL PANEL.
- FIRE ALARM TERMINAL CABINET.
- DOOR BELL PUSHBUTTON.
- MOTOR OUTLET.

DRAWING LIST

DWG. No.	DRAWING NAME:	SHEET No.
E-0.0	LEGEND, RISER DIAGRAMS	1 of 4
E-1.0	BURR FIRST & SECOND FLOOR PLANS	2 of 4
E-2.0	HORACE-MANN BASEMENT & FIRST FLOOR PLANS	3 of 4
E-3.0	ZERVAS FLOOR PLAN	4 of 4

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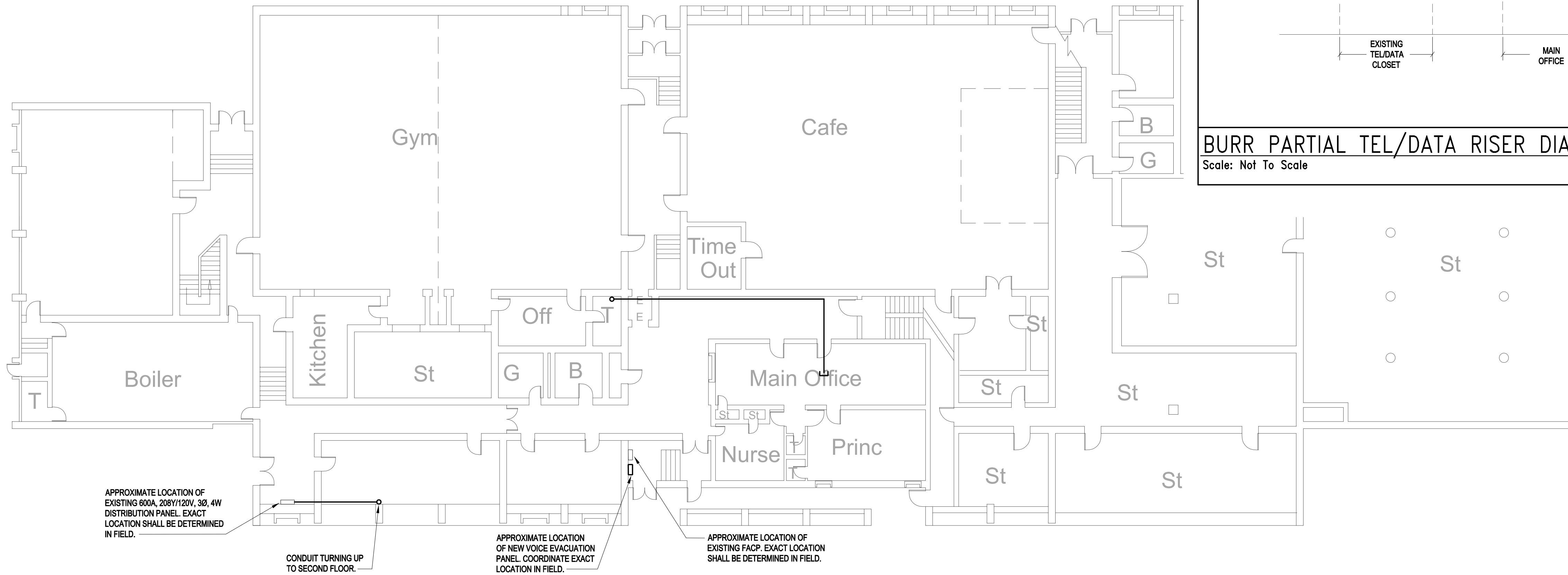
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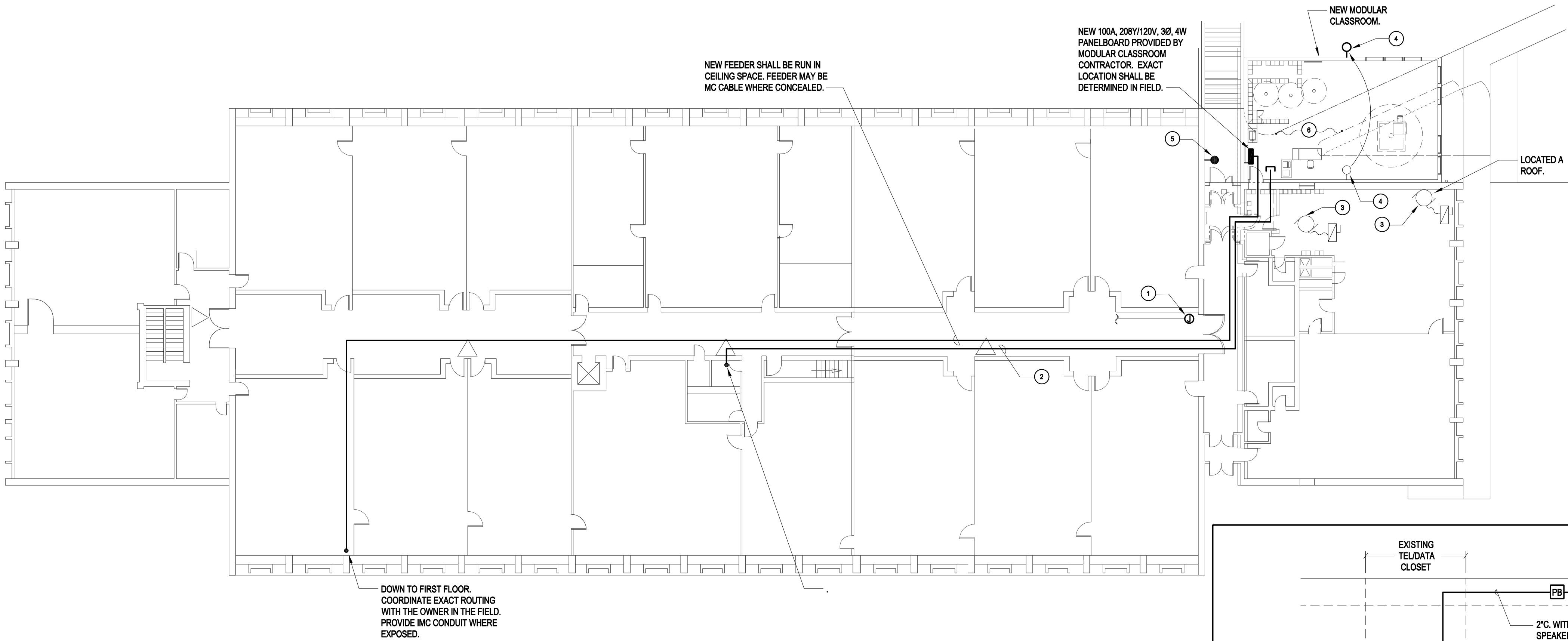
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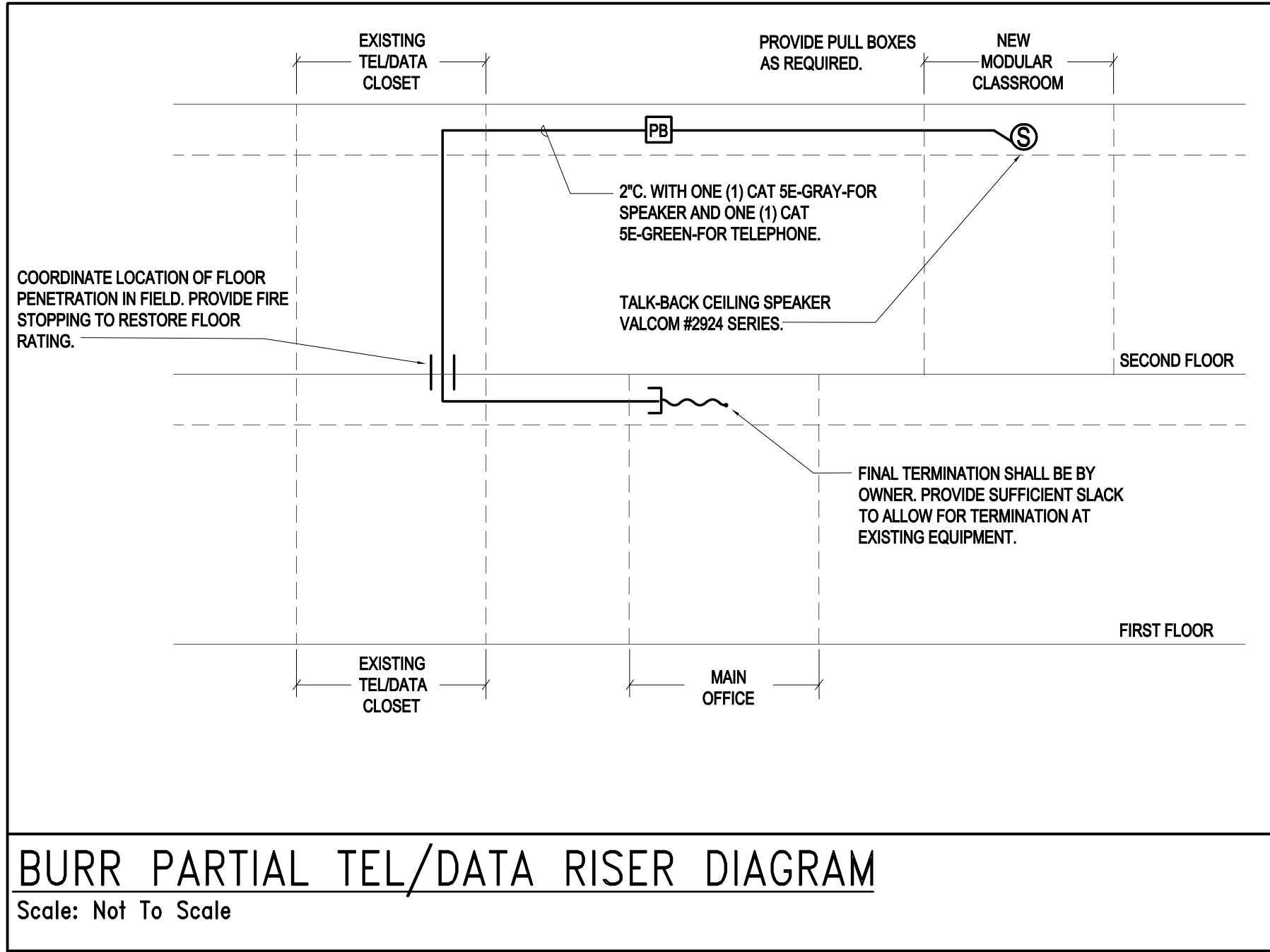
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1 FIRST PLAN
Scale: 1/16" = 1'0"



2 SECOND FLOOR PLAN
Scale: 1/16" = 1'0"



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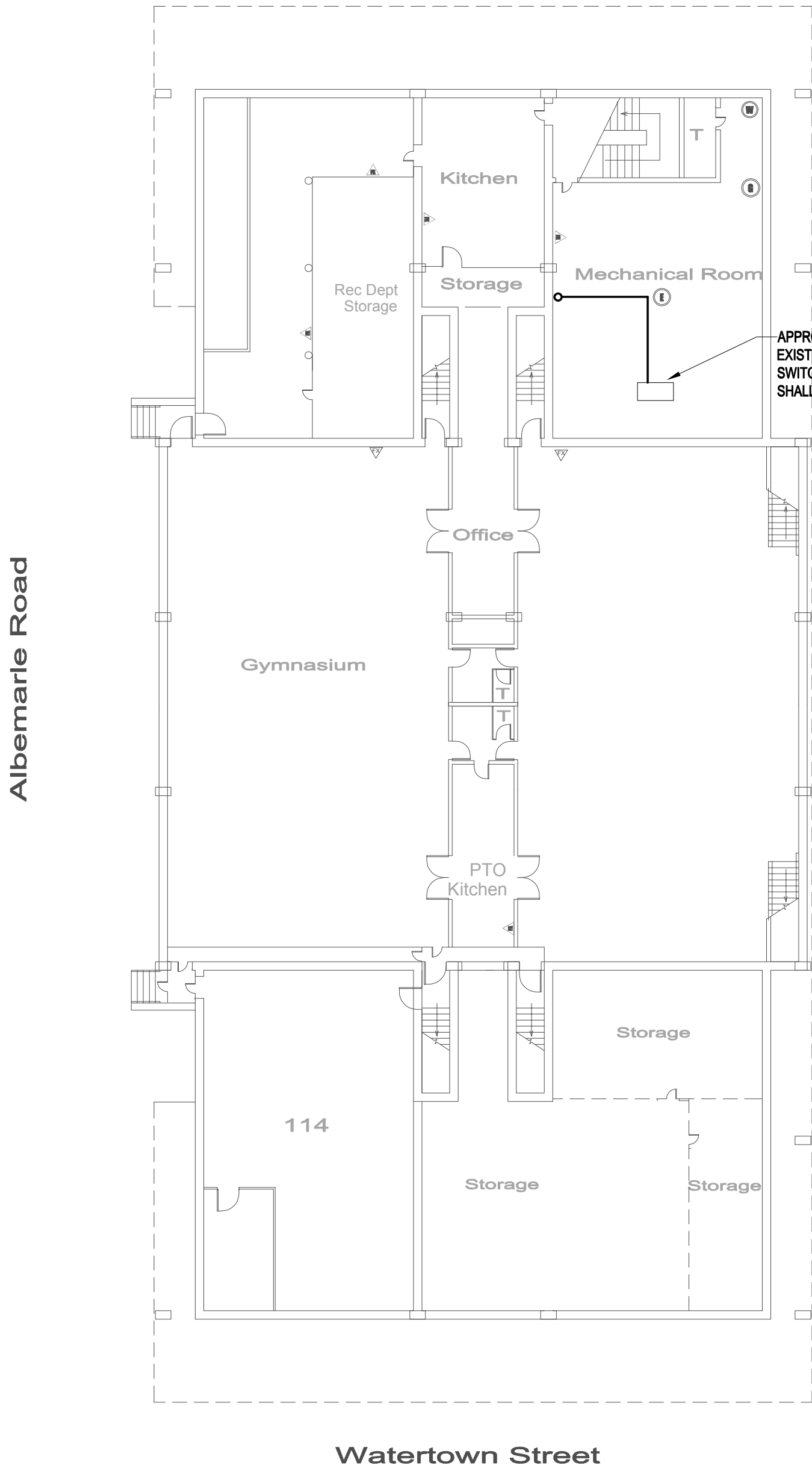
NOTES:

- 1 INTERCEPT EXISTING EMERGENCY BRANCH CIRCUIT WIRING AND EXTEND TO NEW EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES AS REQUIRED.
- 2 PROVIDE 2" C. FOR TEL/DATA WIRING. REFER TO TEL/DATA RISER DIAGRAM.
- 3 EXISTING EXHAUST FAN TO BE RELOCATED BY HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND MAKE SAFE FOR RELOCATION. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT TO NEW LOCATION AS REQUIRED. COORDINATE EXACT NEW LOCATION WITH HVAC CONTRACTOR PRIOR TO ROUGHING.
- 4 EXISTING EXTERIOR LIGHTING FIXTURE TO BE RELOCATED TO EXTERIOR WALL OF NEW MODULAR CLASSROOM ADDITION. INTERCEPT AND EXTEND EXISTING BRANCH CIRCUIT WIRING AS REQUIRED.
- 5 SELF-CONTAINED EXTERIOR EMERGENCY LIGHT WITH DIE-CAST ALUMINUM HOUSING WITH DARK BRONZE FINISH AND TWO (2) 8W XENON LAMPS AND HIGH-TEMPERATURE NI-CAD BATTERY. LITHONIA HAFN-DB-EXT OR APPROVED EQUAL BY SURE-LITES OR M&HILBEN. CONNECT TO NORMAL LIGHTING BRANCH CIRCUIT IN ADJACENT CORRIDOR AHEAD OF SWITCHING.
- 6 BURR ELEMENTARY MODULAR CLASSROOM ADDITION SHALL BE PROVIDED WITH "GREEN OPTION" ALTERNATE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

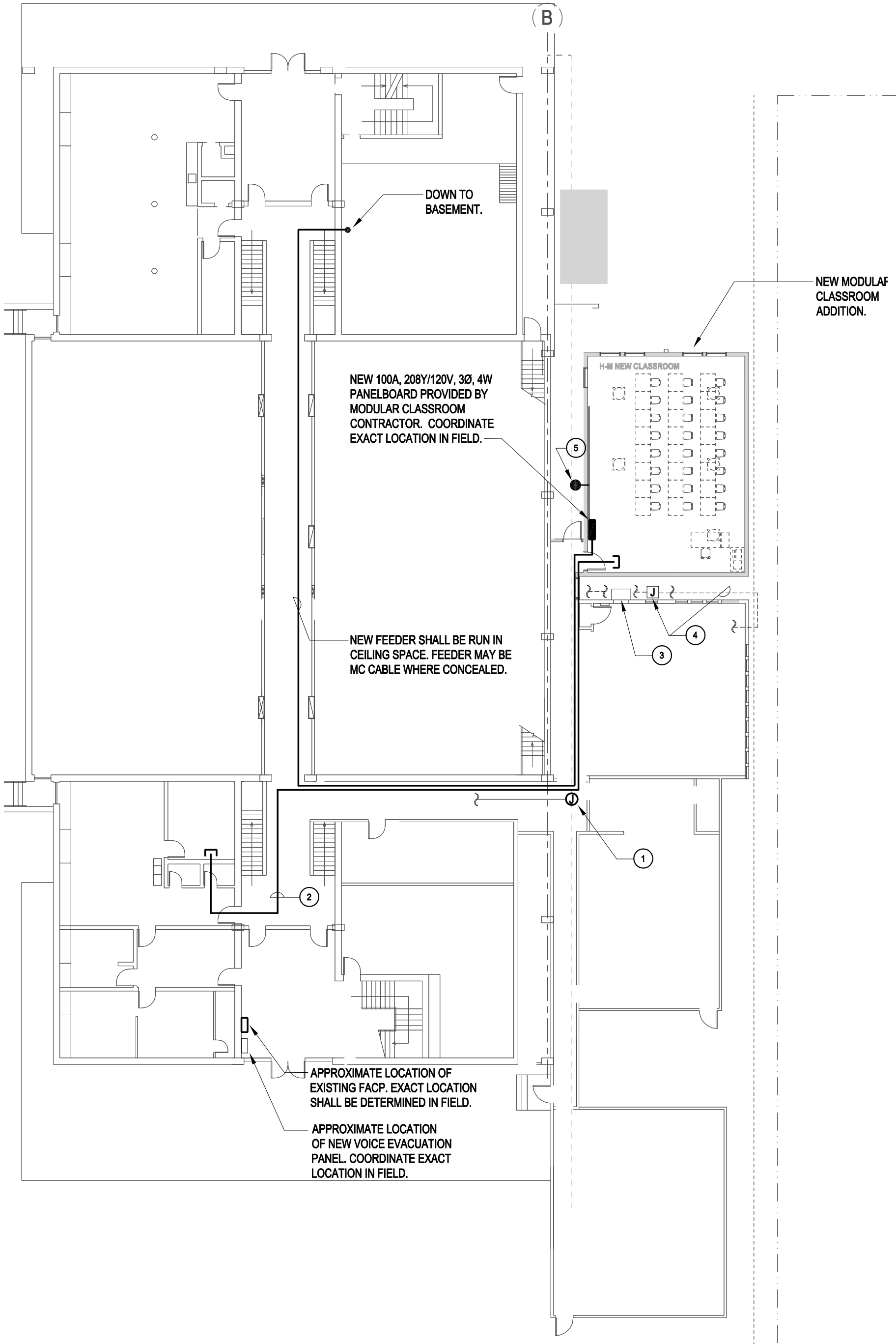
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Modular Classroom Additions
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BURR FIRST & SECOND FLOOR PLANS
SCALE: 1/16" = 1'0"
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E-1.0

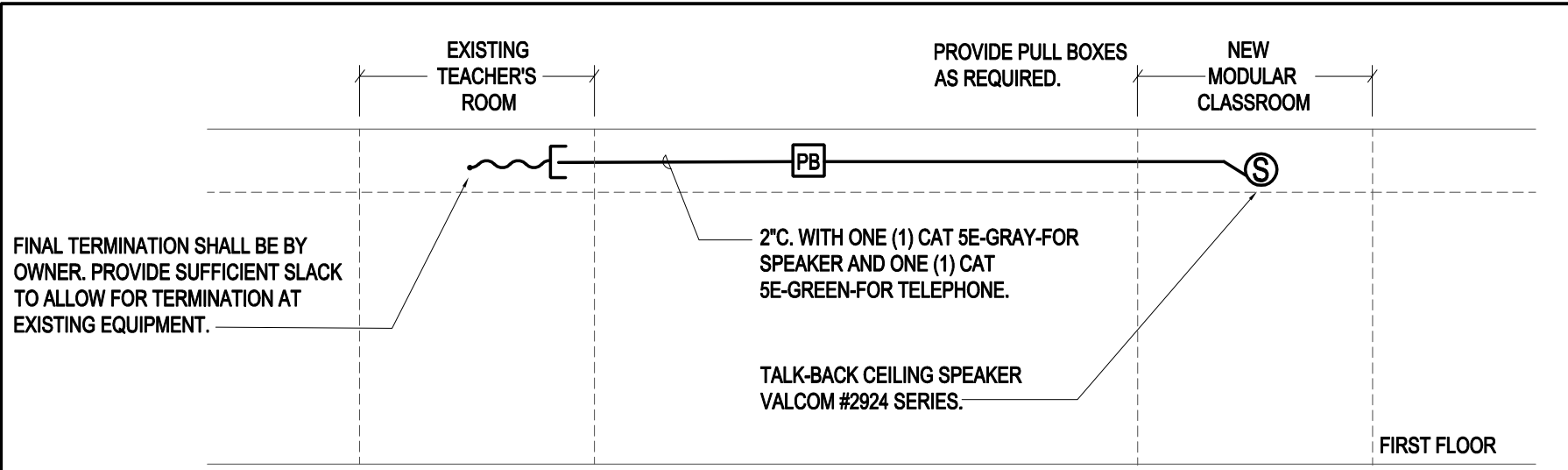


1 BASEMENT FLOOR PLAN
Scale: 1/16" = 1'0"



2 FIRST FLOOR PLAN
Scale: 1/16" = 1'0"

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HORACE MANN TEL/DATA RISER DIAGRAM
Scale: Not To Scale

KEY NOTES:

- 1 INTERCEPT EXISTING EMERGENCY BRANCH CIRCUIT WIRING AND EXTEND TO NEW EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES AS REQUIRED.
- 2 PROVIDE 2" C. TEL/DATA WIRING. REFER TO TEL/DATA RISER DIAGRAM.
- 3 EXISTING THROUGH WALL A/C UNIT TO REMAIN.
- 4 EXISTING BRANCH CIRCUIT WIRING RUN EXPOSED ON EXTERIOR WALL TO REMAIN.
- 5 SELF-CONTAINED EXTERIOR EMERGENCY LIGHT WITH DIE-CAST ALUMINUM HOUSING WITH DARK BRONZE FINISH AND TWO (2) 6W XENON LAMPS AND HIGH-TEMPERATURE NI-CAD BATTERY. LITHONIA #AFN-DB-EXT OR APPROVED EQUAL BY SURE-LITES OR M&PHILBEN. CONNECT TO NORMAL LIGHTING BRANCH CIRCUIT IN ADJACENT CORRIDOR AHEAD OF SWITCHING.

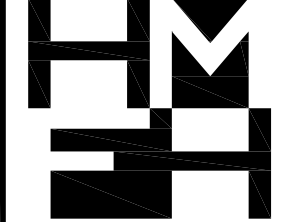
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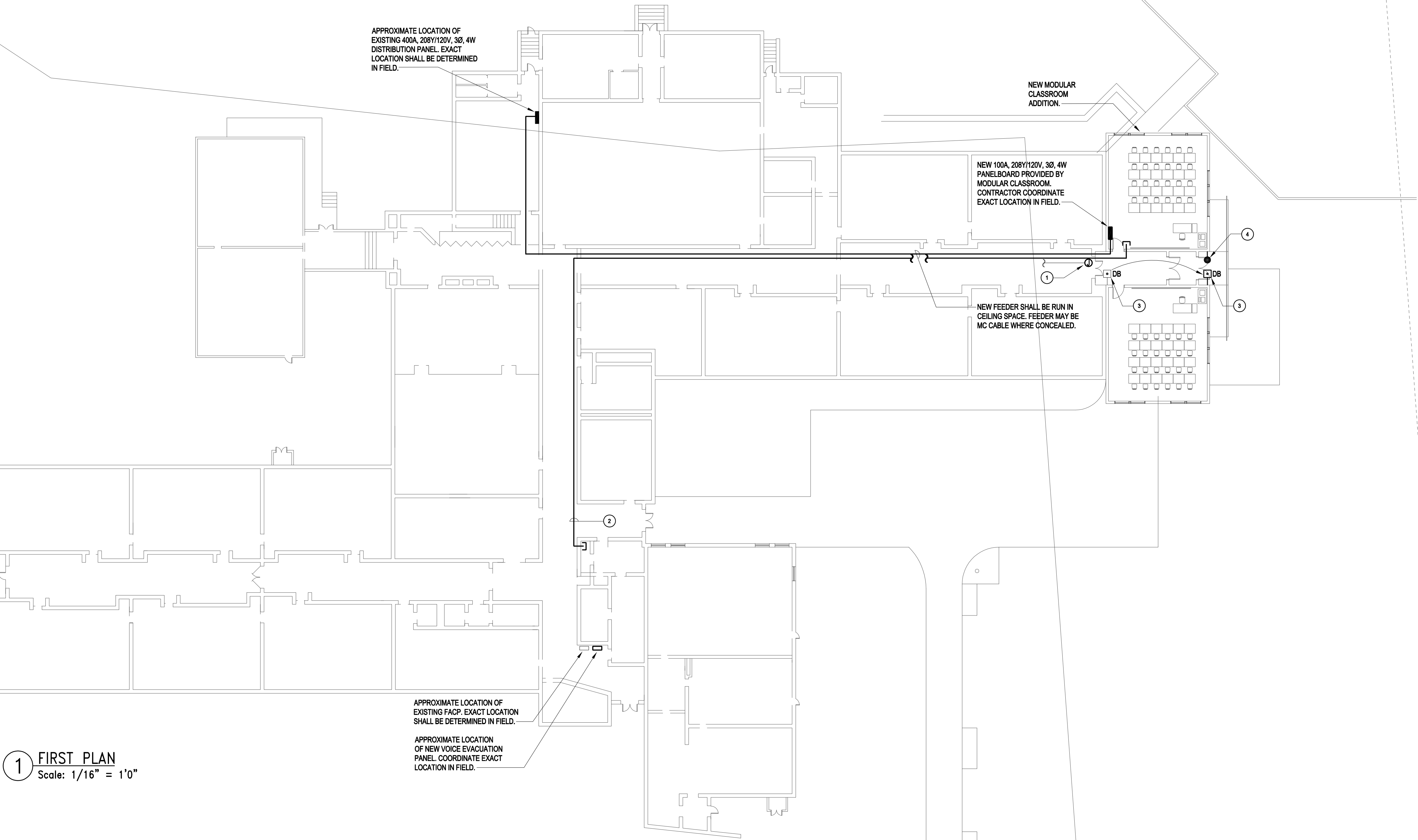
Modular Classroom Additions
Newton, MA
HORACE-MANN BASEMENT & FIRST FLOOR PLANS
SCALE: 1/16" = 1'0" DRAWN BY: IB CHECKED BY: BMM

E-2.0

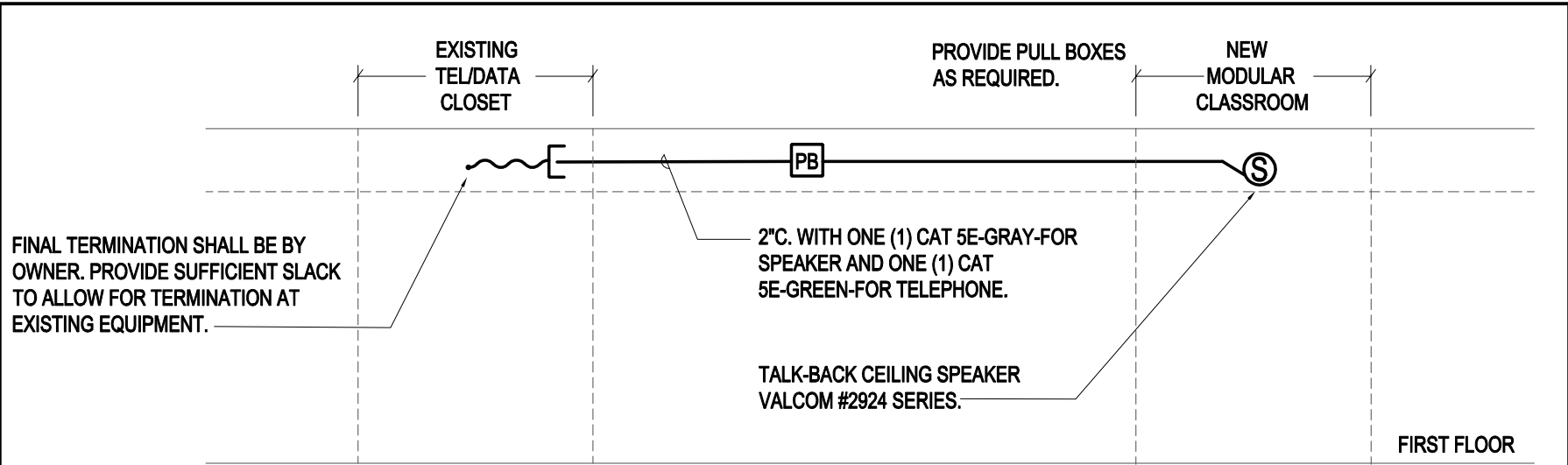
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1 FIRST PLAN
Scale: 1/16" = 1'0"



ZERVAS TEL/DATA RISER DIAGRAM
Scale: Not To Scale

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KEY NOTES:

- 1 INTERCEPT EXISTING EMERGENCY BRANCH CIRCUIT WIRING AND EXTEND TO NEW EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES AS REQUIRED.
- 2 PROVIDE 2\"/>

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E-3.0

JOB NUMBER 11-2485

Modular Classroom Additions
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ZERVAS FLOOR PLAN

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